

DRAFT ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

JANUARY 2025

Buting Elementary School

CONSULTING SERVICES FOR THE ASSESSMENT AND DESIGN OF FUNCTIONAL ELEMENTS OF PUBLIC-SCHOOL BUILDINGS SELECTED FOR RETROFITTING AND STRENGHTHENING/UPGRADING IN PREPARATION FOR "THE BIG ONE" UNDER IBRD LOAN 9251-PH: PHILIPPINES SEISMIC RISK REDUCTION AND RESILIENCE PROJECT (PSRRRP) - FIRM 2



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ACRONYMS

BLGUs Barangay Local Government Units
CSHP Construction Safety and Health Plan
DASB Directly Affected School Buildings

DPWH Department of Public Works and Highways

EIS Environmental Impact Statement

EMOP Environmental Monitoring Pla

EMP Environmental Management Plan

ESF Environmental and Social Framework

ESIA Environmental and Social Impact Assessment

ESMF Environmental and Social Management Framework

ESMMP Environmental and Social Management and Monitoring Plan

ESMP Environmental and Social Management Plan

ESSs Environmental and Social Standards

FGDs Focus Group Discussions
GMMA Greater Metro Manila Area

GRM Grievance Redress Mechanism

IEC Information, Education, and Communication

IEE Initial Environmental Examination

IMP Impact Management Plan

IPF Investment Project Financing

IRR Implementing Rules and Regulation

KIIs Key Informant Interviews
LMP Labour Management Plan

LGCRRP Labor, Gender, Child, and Resettlement Rights Protection

NCCA National Commission for Culture and the Arts

NPCC National Pollution Control Commission

PSRRRP Philippines Seismic Risk Reduction and Resilience Project

PIU Project Implementing Unit
PWD Persons with Disabilities

SEMS Sustainable Environmental Management System

SEP Stakeholder Engagement Plan

SPED Special Education

SRP Students Relocation Plan

VAWC Violence Against Women and Children

1 INTRODUCTION

DPWH is implementing the World Bank-financed 'Philippines Seismic Risk Reduction and Resilience Project (PSRRRP) to enhance: (i) the safety and seismic resilience of selected public school buildings and health facilities in Metro Manila through assessment, repair, and retrofit of public facilities for earthquake resistance; and (ii) the capacity of the DPWH to prepare for and respond to emergencies by improving its emergency response operations and purchasing additional emergency response equipment. The Unified Project Management Office manages the Project - Buildings and Special Projects Management Cluster (BSPMC), the Project Implementation Unit under DPWH. The DPWH, as an implementing agency, will take material measures and actions so that the Project is implemented following the World Bank Environmental and Social Standards.

The primary goal of this ESMP is to assist the proponent in the decision-making and to ensure that the design, construction, and upgrading of educational infrastructures are anchored in the World Bank's standards so that the proposed project is environmentally sound and sustainable.

The purpose of the ESMP are the following:

- Assess the most likely potential environmental and social impacts of the project activities, whether
 positive or negative and propose corresponding mitigation measures;
- Inform the project management team and school concerned of the potential impacts of the related construction activities and relevant mitigation measures; and
- Identify applicable environmental policies and legal and institutional frameworks on the project.

2 PROJECT BACKGROUND

2.1 PROJECT DESCRIPTION

Buting Elementary School traces its origins back to 1900, when it was established on land previously used as a graveyard, which was later donated by the Americans to the local barrio for the purpose of building a school. At that time, the Philippine Soldiers' Barracks, known as Fort McKinley (now Fort Bonifacio), was being constructed nearby.

The school is strategically located at the crossroads of Makati City, Carlos P. Garcia Avenue, Pasig City, and Pateros, with a total land area of 9,684 square meters. Initially, it was a barrio primary school that only offered classes for Grades I to IV. Students in the intermediate grades were transferred to Bambang Elementary School and Pasig Central Elementary School. However, in 1956, Buting Elementary School expanded its offerings to include a complete elementary education from Grades I to VI. The first commencement exercises were held in 1958, with thirty-six Grade 6 graduates. This year marks the school's 49th year of providing complete elementary education to the local community.¹

The school is located along a narrow 3-meter-wide road, with the primary modes of transportation being walking and tricycles. This narrow entry road not only creates potential congestion issues but also presents serious safety concerns, particularly in the event of emergencies where quick evacuation or access by emergency vehicles might be required.

The gates of the school are located within the building scheduled for retrofitting, raising safety concerns. The main gate, as shown in Figure 1, has a height restriction that limits the entry of delivery trucks and larger vehicles, further complicating access for construction equipment and materials. This height limitation, combined

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 $^{^1\,}https://butingespasig.wordpress.com/home/$

with the narrow road, presents logistical challenges for the retrofitting work (see Annex B: Traffic Management for further details). While the school has another gate that students can use, the main gate is the only one capable of accommodating delivery trucks.

The area surrounding the school is predominantly residential, with a neighborhood characterized by small-scale businesses and micro-enterprises such as sari-sari stores and bakeries. These local businesses play a crucial role in supporting the community's economy, providing convenient services and goods to residents.



Figure 1. Buting ES Main Gate

2.2 CONSTRUCTION DESCRIPTION

As part of the retrofitting, the table below outlines the Type of Retrofitting of the affected buildings.

Retrofitting Method Affected Structural Elements Estimated Retrofitting School **Building** Time of Method Completion Columns **Footings** Slabs Buting VPE I Steel Jacketing 12 months Elementary School VPE II Steel Jacketing 12 months

Table 1. Project Scope

The retrofitting works for Buting Elementary School are expected to take approximately 12 months for each building. The project involves the use of steel jacketing. Steel jacketing entails encasing structural components such as beams and columns with steel plates, significantly improving the structure's resistance to seismic forces and additional loads. While steel jacketing traditionally generates substantial noise during the cutting and welding processes, advancements in construction technology have helped reduce noise levels, making the procedure more manageable in environments like schools. This was one of the primary concerns raised during public consultation. Parents and school officials requested that disruptive construction activities, such as those generating loud noise or involving welding, be scheduled after 3:00 PM to avoid interfering with classes.

Traffic and safety management during construction was another critical issue. Safety measures, such as barricades and the construction of temporary walkways, will be prioritized to protect students and staff. The contractors will be required to follow the Construction Safety and Health Program (CSHP) approved by the Department of Labor and Employment (DOLE). To ensure the safety and smooth operation of the school during the retrofitting period, it is essential to establish the entry and exit routes of the workers (refer to Annex B: Traffic Management Plan for further details). As retrofitting progresses, adjustments to these routes may be required, particularly during heavier tasks such as steel jacketing. Any changes will be subject to the coordination and approval of the School Administration and the Local Government Unit (LGU). The barangay officials also pledged their support in managing traffic and ensuring a safe construction environment, provided they receive advance notice to allocate additional manpower.

An estimated number of 40 workers, including a safety officer and a project engineer, will be present on-site at any given time. The workers will be accommodated in a nearby barracks (refer to Annex B: Traffic Management Plan for further details), ensuring easy access to the school. The barracks will be used solely as a resting area for workers, with only one personnel allowed to stay overnight to watch over equipment, as agreed during the public consultation. Other workers will need to find accommodation off-site or in nearby apartments. The barracks must be equipped with at least one portalet to meet basic sanitation needs, and regular sanitation checks should be conducted to maintain cleanliness and hygiene throughout the construction period.

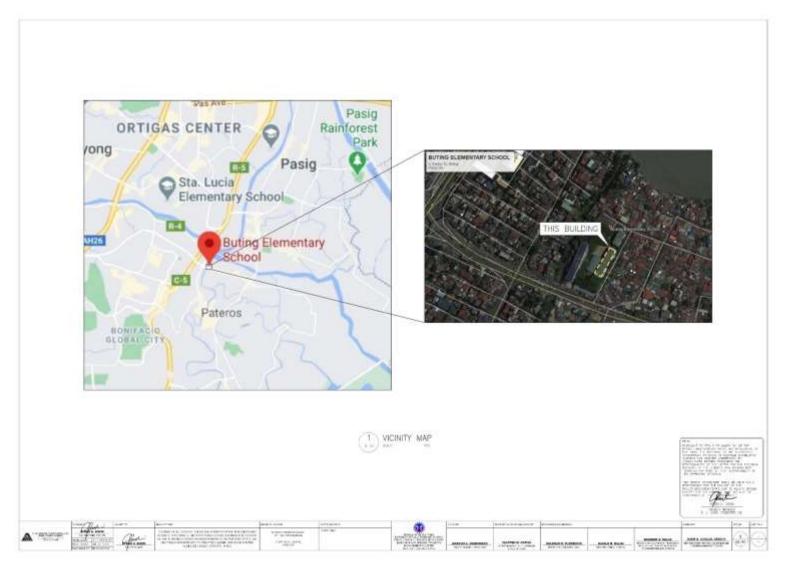


Figure 2. Project Vicinity Map

Figure 3. Buting Elementary School Vicinity



Availability of open space



MRF



Presence of Pocket Gardens



Buting Elementary School has an unused building due to the absence of utilities. If this issue is resolved, it could be used for relocating affected learners





School Main Gate

School Alternative Gate

2.3 **DEMOGRAPHICS**

2.3.1 School

Learner Enrollment and Shifts

The school has a total enrollment of 985 learners, composed of 484 girls and 489 boys, ranging in age from 5 to 12 years old. The learners are enrolled in Kindergarten and Grades 1 to 6. The school operates under a single shift system.

Teaching and Administrative Staff

The school is staffed by a total of 20 teachers and school personnel, with a significant majority being women (15 female staff members and 5 male staff members).

2.3.2 Building-Specific Details

The following data represents the learner distribution in two eligible school buildings (referred to as VPE1 and VPE2):



Figure 4. VPE1 Building

Building Information		Type of rooms directly affected by retrofitting	Existing facilities to be affected by retrofitting
Seismic Vulnerability Rating (SVR): No. of Floors: Estimated Floor Area: Year Constructed: Occupants of the Eligib Total number enrolled in Learners Grade Level Age Range Total Number of Shifts	71.30 5 2862 sqm 1998 e Building 496 Kinder, 1, 2 and 6 5-12 y/o 1	Offices: Principal Administration office Guidance Faculty Maintenance Rooms: Classrooms Science Laboratory Speech Laboratory Computer Laboratory Conference Industrial/Workshop Others: Canteen Clinic Library	WASH Facilities Toilet Urinal Handwashing/Lavatory Water tank/ Water supply Other structural elements: PWD Ramps Ingress and egress Fire-safety (Fire extinguisher cabinet, sprinklers, fire exits) Drainage system Ceilings, wall partition Windows
		Storage Rooms Information (VPE 1 Building	



Figure 5. VPE 2 Building

Building Information		Type of rooms directly affected by retrofitting	Existing facilities to be affected by retrofitting
Seismic Vulnerability Rating (SVR): No. of Floors: Estimated Floor Area: Year Constructed: Occupants of the Eligib Total number enrolled in Learners Grade Level Age Range Total Number of Shifts	71.30 6 2862 sqm 1998 le Building 469 Kinder, 3, 4 and 5 5-12 y/o 1	Offices: Principal Administration office Guidance Faculty Maintenance Rooms: Classrooms Science Laboratory Speech Laboratory Computer Laboratory Conference Industrial/Workshop Others: Canteen Clinic Library	WASH Facilities Toilet Urinal Handwashing/Lavatory Water tank/ Water supply Other structural elements: PWD Ramps Ingress and egress Fire-safety (Fire extinguisher cabinet, sprinklers, fire exits) Drainage system Ceilings, wall partition Windows
	Table 3. Building 1	Storage Rooms Information (VPE 2 Building	a)

2.4 HAZARD ASSESSMENT

Table 4. Hazard Assessment, Pasig Central Elementary School

Hazard	Description
SEISMIC HAZARD ASSESSMENT	'
earest Active Fault cound Rupture cound Shaking arthquake-Induced Landslide quefaction cunami DLCANIC HAZARD ASSESSMENT carest Active Volcano carest Potentially Active Volcano carmanent Danger Zone could Shaking carest Active Volcano carest Potentially Active Volcano carest Potentially Active Volcano carmanent Danger Zone colcanic Tsunami chfall carest Inactive Volcano YDRO-METEOROLOGICAL HAZARD ASSE cood (MGB) corm Surge (PAGASA)	Approximately 220 m southeast of the Valley Fault System: West Valley Fault
Ground Rupture	Safe
Ground Shaking	Prone; Intensity VIII
Earthquake-Induced Landslide	Safe
Liquefaction	High Potential
Tsunami	Safe
VOLCANIC HAZARD ASSESSMENT	·
Nearest Active Volcano	Approximately 60.7 km north of Taal
Nearest Potentially Active Volcano	Approximately 56.4 km east of Corregidor; No immediate volcanic hazard threat
Permanent Danger Zone	Outside
Ballistic Projectiles	Safe
Base Surge	Safe
Volcanic Tsunami	Safe
Ashfall	Prone
Nearest Inactive Volcano	Approximately 31 km northwest of Talim (part of laguna caldera); No immediate volcanic hazard threat
HYDRO-METEOROLOGICAL HAZARD	ASSESSMENT
Flood (MGB)	High Susceptibility; 1 to 2 meters flood height and/or more than 3 days flooding
Storm Surge (PAGASA)	Safe
Severe Wind (PAGASA)	117.1 - 220 kph (20-year return period); 117.1 - 220 kph (500-year return period)

Source: HazardHunterPh



Figure 6. Distance of School to the Valley Fault System



Figure 7. Nearest Body of Water

3 POTENTIAL ENVIRONMENTAL AND SOCIAL RISK AND MITIGATION

3.1 PROJECT TYPOLOGY

All work will be carried out within existing facilities, with no new buildings being constructed. In some facilities, retrofitting may involve significant work on foundations, columns, and beams, including roof strengthening. In other areas, only concrete or epoxy injections, and the replacement and repair of walls, windows, and other accessories will be necessary. These retrofitting activities will be confined to specific floors or sections of a building and do not require a formal environmental assessment under the Philippine Environmental Impact Statement System (PEISS). However, there may be concerns about inconveniences or nuisances to surrounding areas during construction, which will necessitate careful planning and management. These considerations will be integrated into the Environmental and Social Management Plan (ESMP) for each building.

3.2 POTENTIAL ENVIRONMENTAL AND SOCIAL IMPACTS

3.2.1 Temporary relocation of school classrooms and other building equipment

The temporary relocation of students and equipment from the VPE1 and VPE2 classrooms at Buting Elementary School during the retrofitting project is expected to have several significant impacts. During the public consultation held on July 18, 2024, concerns were raised regarding the learning setup during the retrofitting. The group considered using the Caruncho Building, which was currently underutilized due to a lack of power and water supply. While it was suggested that temporary classrooms be set up elsewhere, the team proposed using the contractor's budget to restore the utilities in the Caruncho Building, allowing it to be used as a temporary learning space.

This phased relocation is anticipated to disrupt educational programs and schedules, potentially affecting the continuity of both academic and extracurricular activities. The decision, though necessary, introduces several challenges. Students' displacement from familiar learning environments may lead to decreased engagement and performance as they adapt to new, temporary spaces. Teachers may also face difficulties maintaining instructional quality due to unfamiliar facilities and potential shortages of resources, which could negatively affect overall educational outcomes during the transition period.

From a psychological standpoint, students may experience heightened stress or anxiety due to the transition to unfamiliar environments. The disruption to their daily routines, combined with the uncertainty surrounding temporary arrangements, may impact their emotional well-being and stability.

3.2.2 Construction Impacts

The civil works involved in building retrofitting activities and functional improvements can generate a variety of impacts and risks to workers, building occupants, and the community. These impacts range from low to moderate in severity and can include:

- 1. Environmental Disturbance
 - a. Air Quality: Construction activities can release dust and emissions, affecting air quality.
 - b. Noise Pollution: The use of heavy machinery and construction equipment will generate significant noise, especially during tasks such as steel jacketing and demolition.

2. Waste Management

- a. Construction Debris: Retrofitting activities will generate considerable amounts of construction waste, including debris, packaging materials, and leftover construction supplies. Poorly managed waste could pose environmental and public health risks.
- b. Hazardous Waste: Improper disposal of hazardous waste could lead to soil and water contamination, posing long-term risks to the community.

3. Labor Influx Impact

- a. Community Relations: The influx of construction workers may strain local resources such as water, electricity, and housing, potentially leading to tensions within the community. Additionally, increased interaction between workers and local residents could disrupt existing social dynamics.
- b. Health and Safety: Health and Safety: The presence of an external labor force may raise concerns over health and safety, particularly in relation to the spread of communicable diseases, risks associated with Sexual Exploitation, Abuse, and Harassment (SEA/SH), and accidents occurring off-site.

4. Safety Risks

- Worker Safety: Construction sites present multiple hazards, including falls, exposure to harmful substances, and machinery-related accidents. Inadequate safety measures could result in injuries or fatalities.
- b. Occupant Safety: While the school remains operational during the construction period, the risk of accidents for students, staff, and nearby residents increases. Falling debris, machinery operations, and the movement of construction vehicles pose significant threats.

5. Limited School Access

- a. Disruption of Educational Activities: Ongoing construction may block access to school facilities, limiting the ability of students and staff to attend classes or use essential resources like libraries and laboratories. This could result in a reduction of instructional time and a general sense of disorganization.
- b. Congestion and Safety Concerns: The narrow access road to the school, which is already prone to congestion, will be further strained by construction-related traffic, potentially exacerbating safety risks and reducing the efficiency of emergency response during incidents.

6. Business Relocation

a. Displacement of Local Businesses: Businesses situated near or within the construction zone may need to temporarily relocate, causing financial losses and disrupting local economies. In some cases, business owners may be forced to close operations entirely during the construction period.

7. Traffic Disruption

- a. Road Closures and Detours: Construction activities are likely to cause road closures and detours, affecting the flow of traffic and increasing commute times for students, staff, and community members. This could result in public dissatisfaction and reduced access to essential services.
- b. Public Transport Disruption: The construction zone may interfere with local public transportation routes, making it more difficult for students and staff who rely on public transit to access the school.

8. Utility Disruption

- a. Service Interruptions: Construction work may disrupt essential utilities such as water, electricity, and internet services. Even short-term interruptions can have severe impacts on the school's operations, impeding both educational and administrative activities.
- b. Impact on Local Residents: Utility disruptions could extend beyond the school, affecting nearby homes and businesses and leading to dissatisfaction within the community.

4 ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

The implementation of the project poses potential environmental and social impacts that are expected to be temporary, and/or reversible, and are low in magnitude. These impacts are related to the following construction activities:

- dust nuisance emissions
- noise and ground vibrations
- generation of wastes liquid and solid and small amounts of hazardous waste
- potential pollution of soil and water resources due to accidental spillage of oil, lubricants, fuel, and wastewater
- disruption of current traffic flow and access to school
- traffic safety
- occupational health and safety (OHS)
- construction of access roads and/or damage to access roads.

Objectives of the ESMP

The main objective of the study is to identify the environmental and social impacts related to the proposed construction/retrofitting activities of public schools in Pasig City and to design an appropriate Environmental and Social Management Plan (ESMP) for the project.

The provided ESMP checklist is compatible with WB ESF. During the construction phase of the project the mitigation/enhancement measures prescribed in the ESMP Checklists will be implemented by the winning Contractor. The project engineer or the supervisor ensures the environmental and social compliance of the activities.

Table 5. Environmental and Social Management Plan

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
A. Pre-Construction Pha						
Failure to comply with National Laws and Regulations	LOW	 Acquisition of permits, clearances, no objection certificate (CNC, building permit, electrical permit, sanitary permit, occupancy permit, PCAB license for Contractors, etc.) Include in detailed design drawings and documents all conditions and provisions if necessary 	Copies of approved permits	300,000	Contractor	PIU
Disruption of operation of	HIGH	o Prior consultation with	-Minutes of meetings	500,000	Contractor	PIU
facility due to temporary		the school building	-Site layout	,	School building	
relocation of affected		administrators and other	-Temporary relocation		representative/end-	DEPED
school classrooms or		stakeholders to plan the	plan		user	
relocation of other		temporary relocation site of	-Program of		Stakeholders	
building utilities		affected classrooms and other	works/schedule		(canteen owner,	
		structures	-Updated site- specific		adjacent residential	
		Coordinate the	ESMP		houses, barangay,	
		schedule of activities/program	-Project billboard		etc.)	
		of works with the				
		administration of the school Coordination with				
		 Coordination with Pasig City LGU and/or 				
		barangay for the Traffic				
		management				

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
		 Preparation and implementation of temporary Student Relocation Plan with the approval of the DepEd Schools Division Office. (Refer to ANNEX C for the student relocation plan.) Establishment of the grievance redress mechanism (identify contact persons in case of complaints) Post billboard containing project information and contact information of complaint focal person 				
Arrangement of Pedestrian flow and traffic	HIGH	 Coordination with Barangay and concerned department in Pasig Municipal Hall Proposed traffic measures in place such as the provision of signs, markers and lighting for pedestrian and students Preparation and implementation of Traffic Management Plan (Refer to ANNEX B for the Traffic Management Plan) 	-Installed traffic markers, signage, and other measures -Record/logbook of traffic management	Included in Project Cost	Contractor	PIU

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
Arrangement of workers camp	LOW	o Proposed barracks is reflected in ANNEX B. This is for workers resting place only during work time. Only one personnel is allowed to stay overnight to watch over equipment. Other workers will need to find accommodation off-site. o Location for stockyards/staging area for construction materials will be identified as coordinated with the school principal. There is a portion of the school ground where Contractor may use as a temporary staging area (Refer to Annex B). This should be fenced and away from the entry/exit of the students.	-Staging area is fenced and with appropriate signage	250,000	Contractor	PIU
Designation of Environmental Health and Safety Officer of Contractor	LOW	 The Contractor has to appoint one Environmental, Social and Safety Officer who is capable in implementation of Environmental and social safeguards throughout the project cycle. 	NA	900,000	Contractor	PIU

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
Construction ESMP	LOW	 Contractor will be required to submit the Construction ESMP 	NA	NA	Contractor	PIU
B. Construction Phase						
Excavation, backfilling, hauling/stockpiling of excavated and construction materials May cause soil run off that may clog canals and existing drainage	LOW	o Install safety warning signs (i.e., diamond grade reflective aluminum or magnetic vinyl) and sturdy fence (i.e., GI Sheet) o Maintain no more than 2m height of stockpiles of sand and gravel, secured and located away from the drains and at least 100m away from water source to reduce transport of sediments during heavy rains and should be hauled regularly from the work site o Cover exposed stockpiles of excavated and construction materials with tarpaulins or similar material o Installation of silt traps and void stockpile of materials near run-off prone	o Visual observation of canals and drainage and implementation of mitigating measures	300,000	Contractor	PIU
Physical Cultural Heritage Sites/Chance found archeological property	LOW	o There are no areas of archaeological or historical	Record of inventory	NA	Local Pasig museum	

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
		value identified during field inspection. During excavation work, if any items of historical or archaeological significance are discovered, they must be reported to the project proponent and relevant authorities, such as the National Museum in Manila and the local museum in Pasig City, in accordance with protocol.				
Generation of waste through improper handling and disposal of excavated soil, leftover concrete by excavation	MEDIUM	 Strictly implement solid waste management plan and proper disposal by contractor in accordance with RA 9003, hazardous waste disposal in accordance with RA 6969. Conduct Information, Education and Communication (EIC) campaign on waste management to the communities Contractor will commission a 3rd party hauler accredited by DENR with valid permits and licenses 	o Monitoring record of solid and hazardous wastes hauled/disposed	400,000	Contractor	PIU School Administrator

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
Generation of waste through improper handling and disposal of construction waste / domestic and hazardous wastes (light bulbs, lead-based paints, used oils, used electrical cables,	MEDIUM	o Collect recyclable materials such as used rebars, glass, wires, plastic bottles, and other materials possible for reuse or for recycling to be hauled by the third-party waste hauler accredited by DENR with valid permits and licenses. o Disposal and treatment will be done in TSD facility. o Proper inspection and maintenance of machines and equipment. o Strictly implement solid waste management plan and proper disposal by contractor in accordance with RA 9003, hazardous waste disposal in accordance with RA 6969. o Provide segregate bins/receptacles for the different types of hazardous wastes and put labels on the bins with translation in Tagalog	o Regular monitoring implementation of hazardous waste management measures o Certificate of Treatment (COT) from the DENR-recognized waste treater.	200,000	Contractor	PIU School Administrator

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
Construction waste water from washing vehicles and equipment which contains cement, sand, lubricants, oils, mud, suspended solids, etc.	MEDIUM	 No burning of waste. All generated waste will be hauled by an accredited contractor. Observe good housekeeping Wastewater generated will not be discharged in open areas and directly into drainage. Contractor to install a wash bay area where wastewater will go directly into a holding tank to be hauled and treated by accredited TSD (treatment storage and disposal) facility Wastewater shall be recycled for watering and dust reduction or vehicle cleaning or toilet use Prohibit washing of cement mixers and other construction vehicles at the 	-No discharge of wastewater in open areas -Ensure method statement of Contractor in disposal of wastewater is followed	500,000	Contractor	PIU School Administrator
Wastewater generation from domestic sewage (from construction workers)	LOW	o Domestic sewage wastewater from construction workers shall go into septic tanks if the Contractor will be	 -Certificate of Treatment (COT) from the DENR-recognized treater. 	700,000	Contractor	PIU School Administrator

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
		using portalets. This shall be hauled and treated by accredited waste hauler. o Implement health and sanitation rules to keep the school and vicinity clean	 -Check if wastewater results are within the prescribed standards of DENR 			
Smoke emission from the operation of construction machinery, equipment and construction vehicles	LOW	 Conduct proper inspection and preventive maintenance of heavy equipment, machineries and service vehicles to meet the DENR Emission Standard Use electric or fuel efficient equipment, machineries and vehicles and maximize its operation if possible Ensure proper maintenance of construction equipment 	Record/logbook of maintenance and inspection checklist	200,000	Contractor	PIU School Administrator
Increase in dust emission	HIGH	 When transporting waste/materials and construction materials, the vehicles must be covered with canvas in order to avoid the dust emission Conduct water spraying once a day to suppress dust and minimize 	 Daily inspection of the dust control measures such as trucks are covered No complaints from the public Air pollution monitoring sheet: The 24-hour acceptable 	400,000	Contractor	PIU School Administrator

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
		discomfort to nearby residents and occupants in the compound. Install dust-control curtain (e.g. plastic, tarpaulin) in areas where demolition of walls will be done The school will be equipped with portable air pollution meter. This will be used periodically to monitor air pollution levels dust (PM10 and PM2.5) at the school where students are frequented. Monitoring should occur several times throughout the construction period especially during works	threshold standard for PM10 is 150 µg/m³, while the annual guideline value is 60 µg/m³. The annual guideline value for PM2.5 is set at 25 µg/m³, while the 24-hour guideline value is 35 µg/m³			
Noise generation from construction equipment (mechanical noise) such as welding, drillers, jackhammer Disturbance to students and nearby the residents) Vibration from construction activities such as loading/unloading of	LOW	that produces dust. Ensure noise levels from equipment and machinery conform to NPCC standards Proper maintenance of machinery to minimize noise. Install low-noise equipment and technology such as silencers and mufflers	 Check secure barriers Check work schedule implementation -Check if workers' have ear plugs -Maintain records of complaints received 	Included in total project cost	Contractor	PIU School Administrator

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
materials,		during construction/retrofitting	o Noise			
disassembling/assembling		phase	Monitoring Sheet:			
		 Keep the noise at a 	Maximum Allowable			
		level of no more than 55dB for	Noise (dBA) by time			
		Class A-AA for school and	periods (Category AA)			
		residential areas	• Daytime (9:00AM to			
		 Strictly prohibit heavy 	6:00PM) - 50 dBA			
		noise generating activities	• (5:00AM to			
		beyond 7:00PM, school is near	9:00AM/6:00PM to			
		residential areas and sensitive	10:00PM - 45 dBA			
		receptors.	Nighttime (10:00PM			
		o Incidents, complaints	to 5:00 AM) - 40 dBA			
		and non-compliances related				
		to noise and vibration shall be				
		reported in accordance with				
		the GRM in place				
		 Noise emissions are 				
		minimized during school				
		hours. Only activities that will				
		not generate too much noise				
		and vibration are allowed.				
		The Contractors'				
		Environmental Officer, the				
		PIU's Environmental Specialist,				
		and the School Principal (or a				
		designated teacher) should be				
		equipped with portable,				
		lightweight, handheld noise				
		meters. These meters should				

		PARAMETERS	MITIGATION/ MONITORING	ARRANGEMENT (IMPLEMENTOR)	ARRANGEMENT (MONITORING)
Occupational Health and Safety HIGH CSHP are please fencing and hacces or provide a site a sport as possible as	ded periodically to so noise levels at critical ons such as classrooms of the construction area, of entrances, and along a frequented by the frequented by the factors' transport les. Monitoring should a several times daily ghout the construction d. Contractor to submit approved by DOLE Ensure site premises rovided with appropriate fing and adequate lighting finazard notices to prevent as of unauthorized person Ensure workers are ded with Personal ctive Equipment (PPE). The first aid supplies on and designate first aider. Provide facilities for ation and hygiene such retalets, potable water, and wash station. Implement good	 Strict implementation of DOLE-OSHA regulations Items are installed -PPE are used on-site by workers 	600,000	Contractor	PIU

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
Community Health and Safety (Workers, students and the general public will be exposed to unsafe and hazardous condition)	HIGH	 Ensure that the workers' site area is accessible only to authorize employees All workers must be given site induction before start of work Daily toolbox meeting Conduct orientation of Safety and Health Policies, School regulations to workers The Construction Safety and Health Plan submitted and approved by DOLE shall be implemented and followed during the project phase. Contractor shall comply with DOLE's OSH/CSH standards and requirements Install safety warning signs (i.e., diamond grade reflective aluminum or magnetic vinyl) and sturdy fence (i.e., GI Sheet) at the areas where there is potential risk or danger and need 	 ○ Record/Logbook of safety measures installed ○ -GRM in place 		Contractor	PIU School Administrator
Health and hygiene	HIGH	blocking protection.Provide bins for food waste. Workers are advised	 No littering of food waste 	Included in total project cost	Contractor	PIU

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
		to not dispose food waste	o Implementation			
		openly as that will attract	of good practices			
		rats, cockroaches and other	regarding hygiene and			
		insects, and stray dogs.	sanitation			
		 Connect with the 				
		nearest hospital for the				
		workers in case of accident				
		or injury.				
		 Conduct awareness to 				
		all construction workers in				
		basic sanitation and health				
		care issues and safety				
		matters, and HIV awareness				
Labor Rights	LOW	o Ensure minimum legal	o Strict	Included in	Contractor	PIU
		labor standards as per DOLE	implementation of CSHP	total project cost		
		regulations	o Grievance	COSC		
		o Ensure that the	Redress Mechanism in			
		workers are aware and have	place			
		access to the Grievance				
		redress Mechanism (GRM)				
Fire Prevention	MEDIUM	o Provide necessary fire	o No accidents or	500,000	Contractor	PIU
		prevention equipment on site	injury			School
		in line with applicable local	o Fire prevention			Administrator
T (C 1: 1: 1	LITCLE	regulations	equipment in place	F00 000		
Traffic disruption and	HIGH	Ensure pedestrian	No accidents or	500,000	Contractor	PIU
pedestrian safety.		safety and safety of school	injury			School
		children going to and from	No complaints			Administrator
		school. The entry and exit	from community and stakeholders			Administrator

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
		gateway shall not be blocked	 No conflicts 			
		with construction materials.	between pedestrian and			
		o Install road sign at	vehicular traffic flow			
		the main gate of the school	within the vicinity of the			
		which will bemused for	project site			
		ingress/egress of the				
		Contractor				
		 Ensure continued 				
		access to public transportation				
		routes and services is				
		important for minimizing				
		inconvenience				
		 Coordination with 				
		local authorities about the				
		implementation of traffic				
		management				
		o Provision of clear and				
		visible signages, barriers such				
		as cones along pedestrian				
		lanes				
		Assign a traffic				
		marshall at the high-volume				
		traffic areas within the project				
		site especially during transport				
		of construction materials and				
		heavy equipment				
		 Speed limit up to 10 				
		kph of contractor's service				

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
		delivery and all moving vehicles within the project site				
Gender Issues	LOW	 Development of comprehensive anti-GBV strategy Educated/sensitized on legislation and regulations pertaining to GBV, exploitation and abuse 	No discriminationCommunity acceptance on gender equality	NA	Contractor	PIU
Impacts on livelihood	LOW	 Consult with the local community about the potential disturbance during the project phase No displacement anticipated, disturbance is temporary and can be mitigated 	o GRM Record	NA	Contractor	PIU
Local employment	HIGH	 Local residents are preferred for the supply of services and goods, where appropriate Hire local residents who do not need accommodation as there's no space for the temporary camp of the workers. 	Local employment and procurement record	NA	Contractor	PIU
Complaints related to Sexual Exploitation, Abuse, and Harassment (SEA/SH).	LOW	 Ensure project and worker Grievance Redress Mechanisms (GRMs) are 	 Number of SEA/SH-related complaints handled and 	NA	Contractor	PIU

POTENTIAL RISKS AND IMPACTS	RISK CATEGORY	MITIGATION MEASURES	MONITORING PARAMETERS	COST OF MITIGATION/ MONITORING	INSTITUTIONAL ARRANGEMENT (IMPLEMENTOR)	INSTITUTIONAL ARRANGEMENT (MONITORING)
		equipped to handle SEA/SH complaints with sensitivity and confidentiality. Include mechanisms to refer cases to appropriate GBV service providers.	referred. Presence of confidentiality and referral protocols in GRMs.			
SEA/SH risks and other health and safety risks due to workers' presence at school premises during school sessions.	LOW	O Adopt and enforce Worker Codes of Conduct (CoCs) to prevent and mitigate SEA/SH risks and other safety concerns. Provide training on CoCs and awareness of appropriate behavior.	 Number of workers trained on CoCs. Compliance with CoCs through regular monitoring and reporting mechanisms. 	NA	Contractor	PIU

5 ESMP IMPLEMENTATION

5.1 INSTITUTIONAL PLAN

The project will be implemented by the DPWH, with the involvement of various government agencies playing key roles throughout the different project phases, particularly in retrofitting efforts. The Local Government Unit (LGU), and the Department of Education (DepEd) will be directly involved as the owners of the public-school buildings targeted for retrofitting.

These agencies will participate in ESMP implementation activities at various stages and as needed by the primary stakeholders. The ESMP will be incorporated into the project's implementation arrangements to ensure consistent engagement from project preparation through to implementation.

The DPWH Central Office UPMO-BSPMC will act as the implementing offices, carrying out engagement activities at both the project and community levels.

To ensure effective implementation throughout the project's lifecycle, a dedicated Safeguards Monitoring Section (SMS) will be established under the PIU. The SMS will consist of DPWH Safeguards Specialists as internal evaluators and specialists from partner agencies (DepEd) as external evaluators. This section will be responsible for monitoring and enforcing the proper and rigorous execution of the ESMP.

5.2 MONITORING AND REPORTING

Contractor Monitoring and Reporting

The contractor is responsible for the day-to-day monitoring of construction activities and ensuring compliance with project specifications, safety standards, and quality control measures. This includes maintaining a daily log of activities, materials used, and any deviations or issues encountered on-site. The contractor must conduct regular inspections to verify that all retrofitting works align with the approved plans and adhere to the safety and quality guidelines set by the project. Monthly reports should be submitted to the Project Implementing Unit (PIU), detailing progress, completed milestones, safety compliance, challenges, and mitigation measures. Additionally, the contractor must immediately report any incidents or significant risks, such as structural issues or safety breaches, to the PIU.

Project Implementing Unit (PIU) Monitoring and Reporting

The Project Implementing Unit (PIU) plays a key oversight role in the retrofitting project. It is responsible for conducting regular site visits, audits, and evaluations to assess the contractor's adherence to project requirements and timelines. The PIU reviews the contractor's monthly reports, verifies progress against established benchmarks, and ensures that the project remains within the budget and schedule. To enhance accountability, the PIU consolidates all monitoring data into comprehensive quarterly reports for stakeholders, highlighting the progress, safety compliance, financial updates, and any corrective actions taken. Additionally, the PIU coordinates with local authorities and stakeholders to address community concerns and document key findings or changes in the project's implementation plan.

5.3 STAKEHOLDER ENGAGEMENT PLAN

The proposed strategy for the project includes social preparation and an Information Education Campaign (IEC) to identify and address the social and economic issues affecting key stakeholders and impacted communities. A crucial part of this approach is stakeholder consultation, which aims to inform the community about the project, gather feedback, prepare them for upcoming activities, and maintain ongoing engagement to address social safeguards. Consultations will involve project-affected groups, key stakeholders, school associations, and relevant agencies like DepEd to define roles, review progress, and resolve any arising issues. Special attention will be given to vulnerable groups, such as women, children, persons with disabilities (PWDs), and the elderly, to ensure their concerns are heard and addressed.

The engagement process will follow principles of cultural respect, human rights, and sensitivity to stakeholders' views. Consultations will be transparent, inclusive, and responsive, with a commitment to keeping stakeholders informed about the project, its benefits, risks, and available grievance mechanisms. Additionally, the Department of Public Works and Highways (DPWH) earthquake resilience programs will emphasize seismic retrofitting and public awareness on earthquake safety, especially focusing on preparedness for "The Big One" in Metro Manila.

For stakeholder identification and analysis, the project defines stakeholders broadly as anyone affected by or influential to the project. This includes affected persons and communities, such as students, faculty, parents, and residents near the project site, as well as interested parties like national agencies, local officials, and civil society groups. The Stakeholder Engagement Plan (SEP) will be regularly updated to include any newly identified stakeholders as the project progresses.

The project will be executed by the Department of Public Works and Highways (DPWH). However, various other government agencies will play significant roles in implementing the projects, particularly in retrofitting works.

Project Affected Issues of District/ Relationship **Project Stage Stakeholders** Interest/ Locality/ Concern School Public school School heads, Disruption of Pasia Beneficiaries Preconstruction classes, **Public** directly & occupants facility Limited during space or facilities Schools affected construction maintenance, teachers to accommodate displaced learners Learners during project implementation, exposure to hazards around the construction **PWD Learners** sites, noise, dust, possible disruption of utilities, possible GBV and SEA/SH

Table 6. Stakeholder identification and analysis

of

access to project benefits such as

inclusion

_	ct Affected eholders	Issues of Interest/ Concern	District/ Locality/ School	Relationship	Project Stage
		universal accessibility and design in the school infrastructures			
Parents	Parents of learners; Parent-Teacher Association officers (PTA) and members	Disruption of classes, safety of their children, possible accidents and GBV and SEA/SH risks, quality and standards of the construction of school buildings			construction
Business owners (onsite)	Canteens, side vendors/store, school supplies	Possible relocation of business such as canteens, side vendors/store & school supplies, possible disruption of utilities, noise, dust			Preconstruction & during construction
Barangay Local Government Unit (BLGU)	Barangay officials i.e. Committee for the Protection of Children (BCPC) and Education Committee, traffic enforcers, Gender and development	Road and Traffic safety , coordination with security, peace and order, waste management			Preconstruction & during construction
Immediate community surrounding the schools	public) health facilities, markets (private) Religious structures Neighboring Residents	Noise, dust, traffic, possible disruption of utilities, labor influx/ labor camps			Preconstruction & during construction

Project Affected Stakeholders		Issues of Interest/ Concern	District/ Locality/ School	Relationship	Project Stage
Disadvantaged and Vulnerable Groups	Persons/Students with Disabilities (PWD)/ learners with special educational needs Sexual and Gender Pupils Pregnant women	Accessibility may disproportionately suffer from adverse project impacts (wide variety of hazards) and be constrained from participating in the project and availing of project benefits			Preconstruction
Utility Service Providers	Water, Electric and Telecommunication Providers	Disruption of services and potential relocation of their equipment			construction

5.4 DISCLOSURE AND CONSULTATION

Disclosure and consultation are essential steps in project planning to ensure transparency, stakeholder engagement, and community support. Disclosure involves providing stakeholders with clear, relevant, and timely information about the project, including its objectives, potential impacts, benefits, and risks. This helps build trust and enables stakeholders to make informed decisions.

Consultation, on the other hand, is a two-way dialogue where stakeholders are given the opportunity to express their concerns, expectations, and suggestions. It involves actively listening to and addressing the interests of affected individuals, community members, and key partners. This process not only helps identify and mitigate risks but also enhances project design by incorporating local insights and feedback. Meaningful consultations require the proactive involvement of all stakeholder groups, especially those who are directly impacted by the project, such as residents, schools, and local authorities.

As part of the Disclosure and Consultation, a public consultation on July 18, 2024, at Buting Elementary School was held, to address the concerns of the school community.

A series of consultations will continue throughout the project to ensure that concerns are addressed and that the project is effectively implemented.

5.5 GRIEVANCE REDRESS MECHANISM

For the Workers

At the time of recruitment, workers will be informed of the grievance mechanism and the measures put in place to protect them against any reprisal for its use. The grievance mechanism shall be made easily accessible to all project workers. Regular meetings with the project workers to discuss any work-related issues and concerns will be conducted. Every grievance raised by a worker will be documented with the actions undertaken by the office to address such grievance. The aggrieved worker may raise any issue anonymously through a letter which shall be submitted to his/her immediate supervisor's office. All non-anonymous grievances relative to adequate working conditions, standard occupational safety and health and other concerns from the workers shall be addressed following the procedures outlined below:

The grievance shall be filed by the workers to the Contractor who shall follow the DOLE procedures in handling the complaints. The Contractor shall act within 15 days upon receipt thereof;

If no understanding or amicable solution can be reached, or if the complainant does not receive a response from the Contractor within 15 days of registry of the complaint, he/she can appeal to the PIU, which should act on the complaint/grievance within 15 days from the day of its filing. If the PIU does not see itself fit to address the complaint it will immediately bring the matter to the concerned DOLE office.

If the complainant is not satisfied with the resolution offered by the PIU, he/she can appeal to the concerned DOLE office, which should act on the complaint/grievance within 15 days from the day of its filing.

For the Stakeholders

The project's grievance redress mechanism will address stakeholders' concerns and complaints promptly, using a transparent process that is responsive, culturally appropriate, and readily accessible to all segments of the affected communities at no cost and without retribution. The mechanism should not impede access to the country's judicial or administrative remedies. The redress mechanism will be communicated to the nearby communities and stakeholders of the project and subprojects. A separate grievance redress mechanism for the workers is established to address their complaints and is described in the Labor Management Procedures.

A Memorandum of Agreement (MOA) will be forged between the project proponent and the asset owners on the procedures in the proper handling of grievances and also the need to create a Grievance Redress Committee (GRC) composed of representatives from the asset owner, the implementing office and the contractor. GRC will receive, evaluate and facilitate the resolution of concerns, complaints and grievances of all stakeholders.

A. Procedure for filing the formal Complaint/Grievance:

- 1. Any key stakeholder of the project may file a complaint.
- 2. Complaint should be made to Grievance Redress Committee (GRC). It may be oral, by email citizens_feedback@dpwh.gov.ph or in writing. If the complaint is oral, it will be converted into a written form by the GRC member who received the complaint and authenticated by the complainant under his / her signature as soon as possible.
- 3. If the complainant would not like to reveal his/her name for any grievance, they can drop the grievance(s) in the drop box specific for the project.
- 4. All complaints received by any member of the committee shall be forwarded to citizens_feedback@dpwh.gov.ph for proper documentation.

- B. Process for addressing the Grievance:
 - 1. Upon receipt of complaint, the GRC should send a response to the complainant acknowledging the receipt of grievance within 48 hours.
 - 2. Based on the nature of the complaint and severity of its possible impact, the GRC may take one of the two options to proceed on addressing the concerns:
- a. **Option 1** which can be exercised on matters that could be more routine operation:
 - i. The asset owner representative may issue a direct instruction to the implementing office and contractor regarding the complaints in the construction.
 - ii. It is important that the complainant is well-informed of the actions taken or the work-inprogress within 15 days upon acknowledging receipt of grievance.
 - iii. Once the matter has been resolved the GRC should send a final update to the complainant on the matter.
 - b. **Option 2** which can be exercised in matters of very serious concern:
 - i. The GRC must convene for a meeting immediately after the complaint has been filed.
 - ii. The Committee, as required, may also call for a deposition by the complainant and the person/s involved in the complaint.
 - iii. Final decision of the GRC has to be communicated to the complainant within 15 days of the receipt of the complaint.
 - 3. If no understanding or amicable solution can be reached, or if the complainant does not receive or is dissatisfied with the response from the GRC within 15 days of registry of the complaint, he/she can appeal to the PSRRRP Project Implementing Unit (PIU), which should act on the complaint/grievance within 15 days from the day of its filing. Representative from the PSRRRP Project Implementing Unit (PIU) may be contacted in the following means: email address: citizens_feedback@dpwh.gov.ph; office address: DPWH Central Office Bonifacio Drive, Port Area, Manila; Telephone No.: 165-02; CP no. 09616847084)

If the PAP/PAC is not satisfied with the decision of the PSRRRP PIU, he/she, as a last resort, can submit the complaint to any court of law.

Aside from the PIU, there is a need to identify focal person at the School and the Contractor to receive, screen, and handle grievance cases.

6 CAPACITY DEVELOPMENT AND TRAINING

For effective and efficient implementation of the needed environmental and social risks/impacts management measures, capacity building framework is prepared involving concerned staff, faculty, students, concerned parents, and barangay focal officers shall undergo appropriate and sufficient capacity building. Table 1 shows the proposed capacity building activity.

Table 7. Proposed Capacity Building and Training Approach

Proposed Level	Responsible Agency	NCR-Participants	ESMP Activity / Application
National level	DPWH & DepEd	National staff responsible for the overall implementation of ESMP	 Identification and assessment of Environmental and Social risks Selection and application of relevant risk management measures/instruments Monitoring and reporting Incident and accident reporting Including Code of Conduct, incident reporting, mitigation Application of SEP and the grievance and feedback mechanism
Regional level	NCR-DPWH & DepEd	Regional staff Contractors	 ESMF and approach: Identification and assessment of Environmental and Social risks Selection and application of relevant Environmental and Social risk management measures Monitoring and reporting Incident and accident reporting including Code of Conduct, incident reporting, mitigation Application of SEP and the grievance mechanism
School Building Officials	NCR-DPWH & DepEd Regional and District Officer/staff	Local staff Local contractors	Application of SEP and the grievance mechanism including Code of Conduct, incident reporting, mitigation
Community, local, or barangay level	NCR-School officials, Parents and Teachers	Community members Community Workers, if relevant	 Basic Occupational Health and Safety measures and Personal Protective Equipment Community health and safety issues Worker Code of Conduct Issues, prevention, measures, Grievance redress Teachers, Workers, and Students Grievance redress mechanism
Implementation and Monitoring	NCR-DPWH & DepEd-municipal or City officials	Education Facilities Division – Project Management Unit Regional Engineers	Training and capacity building of building engineers, school heads, PT, and other community partners

Proposed Level	NCR-Participants		ESMP Activity / Application		
		Division Engineers School Heads Civil Society Organizations (CSOs), brgy. officials	in monitoring school building projects.Hiring of Firms for the management and supervision of the project		
Parents and Teachers	NCR-DPWH & DepEd- municipal or City officials	Faculty, staff, Officers of Parents and Teachers, Student Council, barangay officials	 First aid training Conduct of regular earthquake and or disaster drills, Disaster Risk, Reduction Management (DRRM) education integrated with the curriculum 		

7 TIMELINE AND COST

7.1 INDICATIVE SCHEDULE

The duration for retrofitting each building is shown in the table below.

Table 8. Indicative Schedule

School	Building	Retrofitting Method	Estimated Time of Completion
Buting Elementary	VPE I	Steel Jacketing	12 months
School	VPE II	Steel Jacketing	12 months

7.2 INDICATIVE BUDGET FOR ESMP IMPLEMENTATION

The Table below shows the projected costs for the Contractor's labor force, mitigation measures, preventative actions, and monitoring.

Table 9. Indicative ESMP Implementation Budget

COMPONENT/S	UNIT/LOT	UNIT COST (PHP)	DURATION	VPE 1 TOTAL COST (PHP)	VPE 2 TOTAL COST (PHP)
Permits	1 lot	300,000		300,000	300,000
Solid Waste Management (Bins, hauling)	monthly	20,000	12 months	240,000	240,000
Wastewater Management (Portalets, Hauling)	monthly	15,000	12 months	180,000	180,000
Dust-control curtains / Dust Suppression	1 lot	30,000		30,000	30,000
Noise Mitigation (Noise Meter, Noise Barrier)				Included in Project Cost	Included in Project Cost
Drainage Management				Included in Project Cost	Included in Project Cost
Traffic Management	1 lot	150,000		150,000	150,000
Occupational Health and Safety (PPE, Temporary fence, and Signages)	1 lot	500,000		500,000	500,000
EHS Officer	Man/month	35,000	12 months	420,000	420,000
Student and Facilities Relocation Plan	1 lot	300,000		300,000	300,000
Stakeholder Engagement Plan (SEP)	1 lot	100,000		100,000	100,000
Establishment of the Grievance Redress Mechanism	1 lot	200,000		200,000	200,000
Gender-based Violence Action Plan (GBVAP) Training	1 lot	Included in GRM cost		Included in GRM cost	Included in GRM cost

ANNEX A

PROJECT SCREENING FORM

				DA	ATE:		
PART 1: BASIC PRO	DJECT INFO	ORMATION					
1.A. Name of Buildi		1.C. School Identification I	Number:				
Vicente P. Eusebio		136725					
1							
1.B. Name of School	ol: Buting E	lementary School					
2. Project	Complete						ne/Classification:
Location/		o/Barangay:					sidential
Coordinates	A. Santos	St., Buting, Pasig City					, R2, C1, C2, C3) - Low Intensity Residential
	City/Munic	ipality: Pasig City				R2 -	- Medium Intensity Residential
	-						- High Intensity Residential
	Coordinate	oordinates: 14°33'19"N 121°3'57"E					- Low Intensity Commercial - Medium Intensity
							mmercial
							- High Intensity Commercial
3. Contact Person at School	Name of c	oordinator/focal person:				Designa	tion:
reison at school	Ana Lou N	l. Madrigal				Principa	al
	Landline N	o:				Fax No:	
	Mobile No.	/ Viber No./ any available mob	oile platform:			Email Ad	ddress:
	0956-799-	1103				butinge	spasig2@gmail.com
4. Building	SVR: 71.30	<u> </u>		Total	Ectimate	od Floor	Aroa: 2862 sam
Condition	3 VN. 7 1.30	J		TOtali	Total Estimated Floor Area: 2862 sqm		
	No. of floor	rs: 6		Year Constructed: 1998			
F A Domographico	of the sen	cerned Public School					
Total number of	Girls:	Age Range: 5-12 years old					Total no. of class shifts:
Learners (in the	484	7.ge :ge: 0 := ,					rotal field of class climes
whole school):	_	Grade Levels: Kinder and	Grades 1-6				Shift 1 (Time):
985	Boys: 489						Shift 2 (Time):
	403						offilit 2 (Tillie).
							Shift 3 (Time):
Total number of	Girls:	Age Range:					Total no. of class shifts:
Learners enrolled in	Boys:	Grade Levels:					
Special	Doys.	Orace Levels.					
Education							
(SPED)							
Total Number of Te	achere	Total Number of persons v	vith disahiliti	oe.			
and School Person		Teachers/School Personnel		53.			
Women: 15		Women:					
_		Men:					
Men: 5		Learners:					
		Girls:					
		Boys:					
5.B. Occupants of the Eligible Building							
5.B. Occupants of t Number of class sh		Building					
Total number of	Girls: 243	}	Age Range:	5-12 ve	ears old	i	
Learners (Shift 1):			J	, .			
496	Boys: 25 3	3	Grade Level	ls: Kind	er, 1, 2	and 6	

DRAFT ENVIRONMENTAL AND SOCIAL MANAGEMENT FRAMEWORK

Total number of	Girls:		Age Range:		
Learners (Shift 2):					
	Boys:		Grade Levels:		
Total number of	Girls:		Age Range:		
Learners (Shift 3):					
, ,	Boys:		Grade Levels:		
Total number of	Girls:	Age Range:		Total no. of class shifts:	
Learners enrolled	0	7.90		. 5 (6) 1101 51 51 61655 5111161	
in Special	Boys:	Grade Levels:			
Education (SPED)	Doys.	Grade Levels.			
Total Number of Tea	l obore	Total Number of persons v	vith disabilities:		
and School Personn		Teachers/School Personnel:			
Women: 15	iei. 20	Women:			
women. 13					
Man. 5		Men:			
Men: 5					
		Learners:			
		Girls:			
		Boys:			
PART 2: RETROFITT					
6. Type of retrofitting	ıg:	☐Steel Plate Bonding			
		☐Concrete Jacketing			
		□Fiber Reinforced Polymer	(FRP) Systems		
		☐Steel Bracing Systems			
7. Type of rooms dir	ectly			Remarks (Quantity)	
affected by retrofitt		Offices:		77	
•	J	□ Principal			
		⊠ Guidance			
		□ Salutines □ Faculty □ Fac			
		⊠ Mairiteriance			
		Rooms:			
		⊠ Classrooms			
		Science Laboratory class	†		
		⊠ Computer Laboratory			
		☑ Industrial/Workshop			
		Others:			
		□ Canteen			
		☐ Feeding Center			
		⊠ Clinic			
		□ Lodging			
		☐ Pantry			
O Eviating facilities	to bo	WASH Englisting		Domarka (Quantity)	
8. Existing facilities		WASH Facilities ⊠ Toilet		Remarks (Quantity)	
affected by retrofitt	ing				
		□ Urinal □ Urinal			
		⋈ Handwashing/Lavatory			
		⊠ Water tank/ Water supply			
		☐ Septic Tank			
		Other structural elements:			
		⋈ PWD Ramps			

	☐ Fire-safety (Fire extinguished prinklers, fire exits) ☐ Drainage improvement syst ☐ Fastening of Ceilings, wall pure improvement syst ☐ Windows ☐ Stairs ☐ Stairs ☐ Stairs	em	
PART 3: DESCRIPTION OF PROJ QUESTION		NG COMMUNITI YES/NO	ES (BASELINE) REMARKS DURING FIELD VALIDATION/
Q020110	,,,,	120/110	DESCRIBE PHYSICAL APPEARANCE
9. Project Description Is there a proposed/ ongoing projection.			☐ Repair
reconstruction of school buildings?		No	☐ Rehabilitation ☐ Retrofit ☐ Demolition ☐ Total reconstruction
Is the school facility fenced?		Yes	Concrete at the bottom, with the hollow steel bar extending from 1 meter above
Are there any Entry/ Exit Points in		Yes	Indicate number: three 3m-wide steel gates
Are there asbestos roofing and oth removed from the site?	er asbestos materials to be	No	
General Vicinity Is the project located next to a resi	dential becase (indicate if		It is a discount with we side who is standards
the houses are adjacent or if nearly	y only)	Yes	It is adjacent, with residents just outside the school premises.
Are there hospitals and health clini near the school building?	cs with lying-in services	Yes	Nearest Government Health Facility is Buting Health Center (393 m); Nearest Private Health Facility is Mary Immaculate Hospital (1.3 km)
Are there culturally/historically imple near the school?	ortant buildings or areas	Yes	Buting has artifacts they called Mutya
Are there other institutions, public market, parks, etc.) near the school		No	Within the immediate vicinity, there are none. However, the school is surrounded by a residential area with talipapa and small businesses.
Are there religious places (churche school?	es, mosques, etc.) near the	Yes	The nearest church is located 100 meters away from the school.
Is the project close to a commercia		Yes	Small and micro-businesses
Is there an economic enterprise/s outside the project compound that construction?		Yes	Canteen
Are there trees to be removed/affe	oted by the construction?	Na	
Are there trees to be removed/affed Are there available local solid wast provided to the school? (i.e., Mater Color Coded Trash Bins)	e management services	No Yes	Color Coded Trash Bins
Are there available hazardous was services in the locality? (batteries, welding rods, paint buckets etc.)		Yes	Hazardous Wastes are collected by the municipality
Water			

Is the project located next to a waterway, i.e. canal, creek, river? Is there drainage system at the area? (indicate if the drainage system is withinfoutside the school area) - If yes, indicate drainage system condition (working, clogged, not working, etc.) Air Is there a back-up generator set in the school? Is there a back-up generator set in the school? Site there a presence of backyard burning in the area? No People Is there an expense of backyard burning in the area? Construction Is there an expense of backyard burning in the area? People Is the expense of backyard burning in the area? Construction Is there an expense of backyard burning in the area? Ves Construction materials and for parking of construction materials and equipment may restrict movement and pose safety risks to students and school personnel. Is the road going to the site wide enough to accommodate construction vehicles? Is there an available space for the barracks for workers staying overnight? Is there an available space for the barracks for workers staying overnight? Is there an available space for the barracks for workers staying overnight? Is there an available space for the barracks for workers staying overnight? Is there an available space for the barracks for workers to rest/ ear? (all of these are temporary, look for big spaces at school presents) Is the expense of the barracks for workers of workers of the workers? Indicate number of foiled facilities Does the construction work for this project trigger relocation of students and school staff? Yes In the school appears to have sufficient space, storing all construction materials and equipment may restrict movement and pose safety risks to students and school staff? Yes If this is the case, how many students and school staff will be relocated as of Glate). In case of potential relocation of students, is there enough space within the school compound to relocate students? People in remarks the type of space available space for the workers? People in rem	Have you experienced flooding in the past years? -If yes, how frequent in a year? Describe extent of flooding (height) -Indicate duration of flooding due to typhoon or heavy rain				No	bee	cording to the principal, there has en no occurrence of high flooding in school.
Is there drainage system at the area? (indicate if the drainage system is within/louside the school area) - If yes, indicate drainage system condition (working, clogged, not working, etc.) Air Is there a back-up generator set in the school? Is there a back-up generator set in the school? Set there a presence of backyard burning in the area? No People Is there on building being used as an evacuation center? Construction Is there on only open area within the school compound for storage of construction materials and for parking of construction webicles? Is there an available space for the construction debris and other waste? Is there an available space for the barracks for workers and sullable space for the barracks for workers asying overnight? Is there an available space for the barracks for workers staying overnight? Is the roan available space for the barracks for workers are temporary, look for big spaces at school premises) Are there available toiled facilities for the workers? In case of potential relocation of students, is there enough space within the school space and school staff? Yes In school has an unused building due to the shool space of this project trigger relocation of students and school staff? Yes In school has an unused building due to the school appears to have sufficient space, storing all construction movement and pose safety risks to students and school staff? Yes While the school appears to have sufficient space, storing all construction materials and equipment may restrict movement and pose safety risks to students and school staff? Yes While the school appears to have sufficient space, storing all construction materials and equipment may restrict movement and pose safety risks to students and school staff? Yes In the case, how many students and school staff will be relocated as of (date). In case of potential relocation of students, is there enough space of temporary classrooms or existing facility PART 4: HAZARD ASSESSMENT (From HazardHunterPH) HAZARD In t	Is the project located next to a waterway			,	Yes		
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People							
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Nearest Active Volcano Within - Outside danger zone Approximately 60.7 km north of Taal	VOI CANIC HAZARDS						
Ashfall Prone - Safe				-			Approximately 60.7 km north of Taal
	Ashfall	Prone		_	Safe		

HYDRO-METEOROLOGICAL				
Flood	High to Very High/Critical	Moderate Susceptibility	Low Susceptibility	High Susceptibility; 1 to 2 meters flood height and/or more than 3 days flooding
Storm Surge	Prone	-	Safe	nooding

Nearest Critical Facilities (from HazardHunterPH)

(i.e., institutions, health facilities, road network)

Facility Name	Туре	Distance from the Project
Fort Bonifacio Hs - Tibagan Hs Annex	Public Secondary School	241m
Buting Health Center	Government Health Facility	422m
Mary Immaculate Hospital	Private Health Facility	1.3km
C-5 Road; City Of Makati (second	Primary Road Network	278m
District)	_	
Sn Joaquin-Buting Rd; Pasig City	Secondary Road Network	75m

PART 5: ENVIRONMENTAL AND SOCIAL IMPACTS						
IMPACTS	High	Medium	Low	REMARKS		
A. ENVIRONMENTAL IMPACTS	Ĭ					
• Land						
Waste Generation during Retrofitting						
Domestic sewage from workers	No available sanitation facilities for workers	Use of dedicated sanitation facilities within the school	Use of sanitation facilities for workers within the building			
		premises				
Solid wastes and construction debris/spoils	No space/area available adjacent to the school building	Area available within the school premises	Area available within the school building			
Hazardous waste and asbestos materials	Will require removal of asbestos and other hazardous waste	Will require removal of other hazardous waste	Will not require removal of asbestos nor hazardous waste			
Soil Erosion from excavated materials	No space/area available adjacent to the school building	Area available within the school premises	Area available within the school building			
Cutting of Trees	Will involve cutting of trees	Will involve tree trimming only	Will not involve cutting of trees			
Water						
Change in drainage flow	Permanent diversion of drainage flow	Temporary diversion of drainage flow	Will not require diversion of drainage flow			

				_
Inducement of flooding	Will involve earthworks	-	Will not involve earthworks	
Clogging of canals (existing drainage system)	Will involve earthworks	-	Will not involve earthworks	
Sedimentation of creeks, rivers	Direct discharge to nearby creeks/rivers	Direct discharge to city drainage system	No creeks/rivers adjacent	
Air Quality/ Noise/ Vibration		T	T	
Air Pollution from retrofitting activities	Construction activities will involve use air pollution sources (i.e., gensets, heavy equipment)	-	Construction activities will not involve use air pollution sources (i.e., gensets, heavy equipment)	
Dust from retrofitting activities	Construction	Construction	Construction	
Dust nom renoming activities	site is directly adjacent to the sensitive receptor	site is within 30 meters ² from the sensitive receptor	site is more than 30 meters from the sensitive receptor	
Ground Vibration	Construction		Construction	
Ground Visitation	activities will involve groundworks		activities will not involve groundworks	
B. SOCIAL IMPACTS				
• Relocation	500/ -1	400/ 1	400/ - 61/-	
Relocation of students due to class disruption	> 50% of building occupants (students)	>10% but <50% of the building occupants (students)	<10% of the building occupants (students)	
Relocation of affected small	> 50% of	>10% but	<10% of	
businesses (i.e., Canteen) within the project compound	small businesses	<50% of small businesses	small businesses	
Relocation of school staff	> 50% of school staff	>10% but <50% of school staff	<10% of school staff	
Site Security	1			
Presence of workers posing risks to peace and order	Allow stay in workers without the presence of school security	Allow stay in workers with the presence of school security	Workers will have construction camp outside the school premises and with the presence of school security	
				<u> </u>

² Source: National Pollution Control Commission (NPCC)

Access to site	Only one entry/exit point within the school building without school security	Only one entry/exit point within the school building with school security	School building with multiple entry/exit points	
A 4 - 1				
Access to Utilities	10/-1	14/-1)	
Project will result to temporary disruption of water supply	Water disruption for the whole construction duration	Water disruption for more than 1 month	Water disruption for less than one month	
Project result to temporary disruption of electricity	Electricity disruption for the whole construction duration	Electricity disruption for more than 1 month	Electricity disruption for less than one month	
Impact on existing sanitation and sewerage facilities	> 50% of existing sanitation and sewerage	>10% but <50% of existing sanitation and sewerage	<10% of existing sanitation and sewerage	
 Labor and Working Conditions/Com 	munity Health	and Safety/ GB	SV and SHA	
Impact on Community Health and Safety	Construction site is directly adjacent to the nearby community	Construction site is within 30 meters ³ from the nearby community	Construction site is more than 30 meters from the nearby community	
Effect on Gender Based Violence (GBV) and Sexual Harassment and Sexual Exploitation and Abuse	Allow stay in workers without the presence of school security	Allow stay in workers with the presence of school security	Workers will have construction camp outside the school premises and with the presence of school security	
Effect on workers for Occupational health and safety	Construction activities will involve use of heavy equipment and hazardous chemicals.	Construction activities will involve use of heavy equipment or hazardous chemicals.	Construction activities will not involve use of heavy equipment nor hazardous chemicals.	
Spread of Communicable Diseases, (i.e. COVID-19, HIV-AIDS, TB, etc.)	Allow stay in workers without the presence of school security	Allow stay in workers with the presence of school security	Workers will have construction camp outside the school premises and with the presence of school security	

³ Source: National Pollution Control Commission (NPCC)

Traffic				
Traffic Congestion/ blocked roadways during delivery of construction	One-lane Road	Two-lane Road	Four-lane Road	
materials				
Available open space for traffic/parking	No space/area available adjacent to the school building	Area available within the school premises	Area available adjacent to the school building	

List of Identified Sensitive Receptors/Stakeholders (during site visit)

Name of Facility	Туре	Distance from the Project
Jesus The Door Of Victory Ministry	Church	180m
Mutya	Cultural Heritage	Within the school

(Church, HOA, Health Facility, Cultural Heritage)

Based on the above screening, the applicable safeguard measures to be developed for the subproject are:

⊠ Environmental Code of Practice (ECOP) – applicable to activities generating low (minimal) impacts

⊠ECOP 1: Temporary Relocation of School Classrooms and other Building Utilities

⊠ECOP 2: General Construction Site Management

⊠ECOP 3: Workers' Health and Safety

⊠ECOP 4: Community Health and Safety

□ECOP 5: Cultural Properties

⊠Environmental and Social Management Plan (ESMP) – applicable to activities generating medium (manageable) to high (major) impacts

⊠Grievance Redress Mechanism

Stakeholder Engagement Plan (SEP)

⊠Waste Management Plan

⊠Construction Safety and Health Program (CSHP) Checklist

⊠Gender-Based Violence Action Plan

□Consultant-Contractor's Contract

Student Relocation Plan

Note that the applicable safeguards measures are to be included in the bid and contract documents of the contractor.

Recommendations f	for Safety	and Functional	Improvement:

Note: KoboToolbox was utilized in the preparation of this screening form. KoboToolbox is a suite of open-source tools for field data collection.

					DATE:		
PART 1: BASIC PRO	DJECT INFO	ORMATION					
1.A. Name of Buildi Vicente P. Eusebio 2	ling: 1.C. School Identification Number:						
1.B. Name of School	ol: Buting E	lementary School					
2. Project Location/ Coordinates	City/Munic						ne/Classification: sidential , R2, C1, C2, C3) - Low Intensity Residential - Medium Intensity Residential - High Intensity Residential - Low Intensity Commercial - Medium Intensity mmercial - High Intensity Commercial
3. Contact	Name of co	oordinator/focal person:				Designat	
Person at School	Ana Lou N Landline N Mobile No. 0956-799-	. Madrigal b: Viber No./ any available mobile platform:				Principal Fax No: Email Address: butingespasig2@gmail.com	
4. Building	SVR: 71.30)		Total I	Estimat	ed Floor	Area: 2862 sqm
Condition	No. of floor					structed: 1998	
	6.41						
Total number of Learners (in the whole school): 985	Girls: 484 Boys: 489	Age Range: 5-12 years old	Age Range: 5-12 years old Grade Levels: Kinder and Grades 1-6			Total no. of class shifts: Shift 1 (Time): Shift 2 (Time):	
							Shift 3 (Time):
Total number of Learners enrolled in Special Education (SPED)	Girls: Boys:	Age Range: Total no. of class sh Grade Levels:					Total no. of class shifts:
Total Number of Teachers and School Personnel: 20 Women: 15 Wen: 5 Men: 5 Total Number of persons with disabilities: Teachers/School Personnel: Women: Men: Learners: Girls: Boys:							
5.B. Occupants of t		Building					
Number of class sh	ifts:						
Total number of Learners (Shift 1): 469	Girls: 241 Boys: 23		Age Range: Grade Leve	_			
	, , , , , , , , , , , , , , , , , , ,						

Total number of	Girls:		Age Range:	
Learners (Shift 2):				
	Boys:		Grade Levels:	
	•			
Total number of	Girls:		Age Range:	
Learners (Shift 3):				
, ,	Boys:		Grade Levels:	
	.,.			
Total number of	Girls:	Age Range:		Total no. of class shifts:
Learners enrolled		3 3.		
in Special	Boys:	Grade Levels:		
Education (SPED)	Doyo.	0.000 2010.0.		
Total Number of Tea	chers	Total Number of persons v	vith disabilities	
and School Personn		Teachers/School Personnel		
Women: 15	_	Women:	•	
Womon. 10		Men:		
Men: 5		Wort.		
		Learners:		
		Girls:		
		Boys:		
PART 2: RETROFITT	ING (BIIII	DING SPECIFIC)		
6. Type of retrofittin		□Steel Plate Bonding		
o. Type of Tetrofittin	y.			
		□Concrete Jacketing		
		⊠Steel Jacketing		
		□Fiber Reinforced Polymer	(FRP) Systems	
		☐Steel Bracing Systems		
				,
7. Type of rooms dir				Remarks (Quantity)
affected by retrofitt	ing	Offices:		
		☑ Guidance		
		Rooms:		
		⊠ Science Laboratory class	;	
		□ Computer Laboratory		
		⊠ Conference		
		☑ Industrial/Workshop		
		Others:		
		⊠ Canteen		
		☐ Feeding Center		
		⊠ Clinic		
		☐ Lodging		
		☐ Pantry		
		,		
8. Existing facilities	to be	WASH Facilities		Remarks (Quantity)
affected by retrofitt		⊠ Toilet		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	3	☐ Urinal		
		⊠ Handwashing/Lavatory Weter tenk/ Weter augusts		
		⊠ Water tank/ Water supply □ Contin Tank		
		☐ Septic Tank		
		Other structural elements:		
		□ Ingress and egress		

 ☑ Fire-safety (Fire extinguished sprinklers, fire exits) ☑ Drainage improvement syst 	em	
		
☐ Stairs		
Other Comments/Observations during the field visit:		
PART 3: DESCRIPTION OF PROJECT SITE AND SURROUNDI		
QUESTION	YES/NO	REMARKS DURING FIELD VALIDATION/
9. Project Description		DESCRIBE PHYSICAL APPEARANCE
3. I Toject Description		
Is there a proposed/ ongoing project for the rehabilitation/		□ Repair
reconstruction of school buildings?		☐ Rehabilitation
	No	□ Retrofit
	140	□ Demolition
		☐ Total reconstruction
Is the school facility fenced?		Concrete at the bottom, with the hollow
is the school lacinty reflects:	Yes	steel bar extending from 1 meter above
Are there any Entry/ Exit Points in the school?	Yes	Indicate number: three 3m-wide steel
Are there calculates reading and other calculates restained to be		gates
Are there asbestos roofing and other asbestos materials to be removed from the site?	No	
General Vicinity		
Is the project located next to a residential house? (indicate if	Yes	It is adjacent, with residents just outside
the houses are adjacent or if nearby only)	res	the school premises.
Are there hospitals and health clinics with lying-in services		Nearest Government Health Facility is
near the school building?	Yes	Buting Health Center (393 m); Nearest Private Health Facility is Mary
		Immaculate Hospital (1.3 km)
Are there culturally/historically important buildings or areas	Yes	Buting has artifacts they called Mutya
near the school?	res	
Are there other institutions, public offices/ public places (wet		Within the immediate vicinity, there are
market, parks, etc.) near the school?	No	none. However, the school is surrounded by a residential area with
		talipapa and small businesses.
Are there religious places (churches, mosques, etc.) near the		The nearest church is located 100
school?	Yes	meters away from the school.
Is the project close to a commercial area?	Yes	Small and micro-businesses
Is there an economic enterprise/s (i.e., canteen) within or	V	Canteen
outside the project compound that may be affected during construction?	Yes	
Land		
Are there trees to be removed/affected by the construction?	No	
Are there available local solid waste management services		Color Coded Trash Bins
provided to the school? (i.e., Material Recovery Facilities,	Yes	
Color Coded Trash Bins)		
Are there available hazardous waste transport and treatment	V	Hazardous Wastes are collected by the
services in the locality? (batteries, busted lamps, used oils, welding rods, paint buckets etc.)	Yes	municipality
Water		

Have you experienced flooding in the par- lf yes, how frequent in a year? Describe (height) -Indicate duration of flooding due to typh	extent of floodi	_		No	bee	cording to the principal, there has en no occurrence of high flooding in school.
Is the project located next to a waterway, river?		,	Yes		adjacent to Taguig River and is less n 200m to Pasig River	
Is there drainage system at the area? (inc system is within/outside the school area) - If yes, indicate drainage system condition not working, etc.)		_	,	Yes	Dra see	ninage is within the school area which ems to be working at the time of visit needs improvement.
Air						
Is there a back-up generator set in the so				No		
Is there a presence of backyard burning	in the area?			No		
People Is the school building being used as an e	vacuation conta	nr?	— ,	Yes		
Construction	vacuation cente	31 :		162		
Is there enough open area within the sch storage of construction materials and for construction vehicles?		for	,	Yes	suf ma mo	ile the school appears to have ficient space, storing all construction terials and equipment may restrict vement and pose safety risks to dents and school personnel.
Is the road going to the site wide enough	to accommoda	ite	,	Voc		e school is near C-5 Road of (308m)
construction vehicles?				Yes	and	I Sn Joaquin-Buting Rd (85m).
Is there an available space for the construction other waste?		nd	`	Yes	suf	ile the school appears to have ficient space, storing all construction
Is there an available space for the barrac	ks for workers		·	Yes		terials and equipment may restrict
staying overnight?				V		vement and pose safety risks to dents and school personnel.
Is there an available space for stay out w (all of these are temporary, look for big s premises)			Yes s		รเน	uents and school personner.
Are there available toilet facilities for the	workers?				ΔII	toilets are being utilized by students,
-Indicate number of toilet facilities	WOLKOIO.					chers and school personnel.
Does the construction work for this proje of students and school staff? -If this is the case, how many students ar relocated as of (date). In case of potential relocation of students	and school staff will be		Yes		The	e school has an unused building due
space within the school compound to rele- Describe in remarks the type of space a space for temporary classrooms or existi	ocate students? vailable e.g., ou	•	Yes		to t res	the absence of utilities. If this issue is olved, it could be used for relocating exted learners
PART 4: HAZARD ASSESSMENT (From		rPH)			u.i.	octou lournore
HAZARD	INDICAT	E LÉVE	L OF EX	POSURE		REMARKS
	LP. L		P			
SEISMIC HAZARDS	High	IVIE	dium	Low		
Ground Rupture	Prone		-	Safe		
Ground Shaking	Intensity Scale VIII-X		nsity Intensity V-VII Scale I-I		•	Approximately 221 m southeast of the Valley Fault System: West Valley Fault
Liquefaction	High Susceptibility		erate ptibility	Low Susceptib	oility	
Earthquake-Induced Landslide	High Susceptibility		erate ptibility	Low Susceptib	oility	
Tsunami	Prone		-	Safe		
VOLCANIC HAZARDS						
Nearest Active Volcano	Within danger zone	-		Outside danger zo		Approximately 60.7 km north of Taal
l l	dariger zone			danger ze		

HYDRO-METEOROLOGICAL				
Flood	High to Very High/Critical	Moderate Susceptibility	Low Susceptibility	High Susceptibility; 1 to 2 meters flood height and/or more than 3 days
Storm Surge	Prone	-	Safe	flooding

Nearest Critical Facilities (from HazardHunterPH)

(i.e., institutions, health facilities, road network)

Facility Name	Туре	Distance from the Project
Fort Bonifacio Hs - Tibagan Hs Annex	Public Secondary School	241m
Buting Health Center	Government Health Facility	422m
Mary Immaculate Hospital	Private Health Facility	1.3km
C-5 Road; City Of Makati (second	Primary Road Network	278m
District)		
Sn Joaquin-Buting Rd; Pasig City	Secondary Road Network	75m

PART 5: ENVIRONMENTAL AND SOCIAL IMPACTS				
IMPACTS	High	Medium	Low	REMARKS
A. ENVIRONMENTAL IMPACTS				
• Land				
Waste Generation during Retrofitting				
Domestic sewage from workers	No available sanitation facilities for workers	Use of dedicated sanitation facilities within the	Use of sanitation facilities for workers within the	
		school premises	building	
Solid wastes and construction debris/spoils	No space/area available adjacent to the school building	Area available within the school premises	Area available within the school building	
Hazardous waste and asbestos materials	Will require removal of asbestos and other hazardous waste	Will require removal of other hazardous waste	Will not require removal of asbestos nor hazardous waste	
Soil Erosion from excavated materials	No space/area available adjacent to the school building	Area available within the school premises	Area available within the school building	
Cutting of Trees	Will involve cutting of trees	Will involve tree trimming only	Will not involve cutting of trees	
Water		l		
Change in drainage flow	Permanent diversion of drainage flow	Temporary diversion of drainage flow	Will not require diversion of drainage flow	

Inducement of flooding	Will involve earthworks	-	Will not involve earthworks	
			earthworks	
Clogging of canals (existing drainage system)	Will involve earthworks	-	Will not involve	
			earthworks	
Sedimentation of creeks, rivers	Direct discharge to	Direct discharge to	No creeks/rivers	
	nearby creeks/rivers	city drainage system	adjacent	
Al- O - Pr. (Note - 1) Plants				
Air Quality/ Noise/ Vibration	O a sa da sa di a sa		0	T
Air Pollution from retrofitting activities	Construction activities will involve use air pollution	-	Construction activities will not involve use air	
	sources (i.e., gensets, heavy		pollution sources (i.e., gensets,	
	equipment)		heavy equipment)	
Dust from retrofitting activities	Construction site is directly adjacent to the sensitive receptor	Construction site is within 30 meters ⁴ from the sensitive receptor	Construction site is more than 30 meters from the sensitive receptor	
Ground Vibration	Construction activities will involve groundworks		Construction activities will not involve groundworks	
B. SOCIAL IMPACTS	•		•	
Relocation				
Relocation of students due to class disruption	> 50% of building occupants (students)	>10% but <50% of the building occupants (students)	<10% of the building occupants (students)	
Relocation of affected small businesses (i.e., Canteen) within the	> 50% of small businesses	>10% but <50% of small	<10% of small businesses	
project compound	Dusinesses	businesses	Businesses	
Relocation of school staff	> 50% of school staff	>10% but <50% of school staff	<10% of school staff	
Site Security	+			
Presence of workers posing risks to peace and order	Allow stay in workers without the presence of school security	Allow stay in workers with the presence of school security	Workers will have construction camp outside the school premises	
			and with the presence of school security	
	I	I	l	

⁴ Source: National Pollution Control Commission (NPCC)

Access to site	Only one entry/exit point within the school building without school security	Only one entry/exit point within the school building with school security	School building with multiple entry/exit points	
A 4 - 1				
Access to Utilities	14/-1	14/-1	Water	
Project will result to temporary disruption of water supply	Water disruption for the whole construction duration	Water disruption for more than 1 month	disruption for less than one month	
Project result to temporary disruption of electricity	Electricity disruption for the whole construction duration	Electricity disruption for more than 1 month	Electricity disruption for less than one month	
Impact on existing sanitation and sewerage facilities	> 50% of existing sanitation and sewerage	>10% but <50% of existing sanitation and sewerage	<10% of existing sanitation and sewerage	
 Labor and Working Conditions/Com 	munity Health	and Safety/ GB	V and SHA	
Impact on Community Health and Safety	Construction site is directly adjacent to the nearby community	Construction site is within 30 meters ⁵ from the nearby community	Construction site is more than 30 meters from the nearby community	
Effect on Gender Based Violence (GBV) and Sexual Harassment and Sexual Exploitation and Abuse	Allow stay in workers without the presence of school security	Allow stay in workers with the presence of school security	Workers will have construction camp outside the school premises and with the presence of school security	
Effect on workers for Occupational health and safety	Construction activities will involve use of heavy equipment and hazardous chemicals.	Construction activities will involve use of heavy equipment or hazardous chemicals.	Construction activities will not involve use of heavy equipment nor hazardous chemicals.	
Spread of Communicable Diseases, (i.e. COVID-19, HIV-AIDS, TB, etc.)	Allow stay in workers without the presence of school security	Allow stay in workers with the presence of school security	Workers will have construction camp outside the school premises and with the presence of school security	

⁵ Source: National Pollution Control Commission (NPCC)

Traffic				
Traffic Congestion/ blocked roadways	One-lane	Two-lane	Four-lane	
during delivery of construction	Road	Road	Road	
naterials				
Available open space for traffic/parking	No	Area	Area	
Available open space for traffic/parking	space/area	available	available	
	available	within the	adjacent to	
	adjacent to	school	the school	
	the school	premises	building	
	building	premises	building	
	- Dallan ig			
List of Identified Sensitive Receptors/S	stakeholders (during site visit)		
Name of Facility		Туре		Distance from the Project
Jesus The Door Of Victory Ministry		Church		180m
Mutya	(Cultural Heritage	,	Within the school
iwutya	+	zuiturai rieritage	,	Within the School
Church, HOA, Health Facility, Cultural	Heritage)			
Based on the above screening, the applic	cable safeguard	d measures to b	e developed fo	or the subproject are:
⊠Environmental Code of Pract	ice (FCOP) – a	policable to acti	vities generati	ing low (minimal) impacts
⊠ECOP 1: Temporar				
⊠ECOP 2: General C			onio ana otno	. Bananing Canaloc
		•		
⊠ECOP 3: Workers' I		-		
⊠ECOP 4: Communit		afety		
□ECOP 5: Cultural Pr	operties			
⊠Environmental and Social Ma	nagement Plar	ı (ESMP) – appli	cable to activi	ities generating medium (manageable) t
high (major) impacts				
⊠Grievance Redress Mechanis	m			
⊠Stakeholder Engagement Pla				
	II (OLI)			
⊠Waste Management Plan				
⊠Construction Safety and Hea		SHP) Checklist		
⊠Gender-Based Violence Action	on Plan			
□Consultant-Contractor's Cont	ract			
Student Relocation Plan				
	D)			
□ Labor Management Plan (LMP)				
⊠Chance Find Procedure				
Note that the applicable safeguards meas	sures are to be	included in the	bid and contra	act documents of the contractor.
Recommendations for Safety and Function	onal Improveme	ent :		

Note: KoboToolbox was utilized in the preparation of this screening form. KoboToolbox is a suite of open-source tools for field data collection

ANNEX B.

TRAFFIC MANAGEMENT PLAN

Traffic Management Plan or TMP is a plan established to clearly direct and control traffic disruptions within the area covered by the PSRRP. TMP is essential for ensuring the safe and efficient movement of construction vehicles and pedestrians.

This plan includes operations strategies for managing traffic flow within the local area impacted by the construction/retrofitting activities including the techniques to facilitate site access, parking, signage, warning devices, and pedestrian access.

EXISTING SITE CONDITIONS

Issues and Concerns

1. Access Roads

- a. Narrow road (approx. 3.0m 3.5m wide). The road in front of the school is too narrow to accommodate two-way traffic, posing safety risks for vehicles and pedestrians. (Figure B-2)
- b. Low-hanging power cables. Electrical cables are hanging dangerously close to the road, which could lead to accidents or disruptions.
- c. Pedestrians walk on the roadway due to the lack of sidewalks. The absence of designated pedestrian walkways forces people to walk on the road, increasing the risk of accidents.
- d. Vehicles are parked along the road. The presence of parked vehicles further reduces the already limited road space, hindering traffic flow and exacerbating safety concerns.
- e. The entrance/gate is also located within the affected building.



Figure B-1. School Gates

Proposed Delivery Routes

The route depicted in the Figure 3 starts from M. Concepcion Avenue, a wide city road that offers ample space for vehicles to move and allows for smoother traffic flow. Given its accessibility and width, this road is ideal for the movement of delivery trucks and other vehicles during the scheduled delivery times between 10 PM to 4 AM, when traffic is typically lighter.

However, once the vehicles enter A. Santos Street, which is directly in front of the school, the road becomes significantly narrower. A. Santos is a one-way street, which could pose some challenges for both regular traffic and construction-related deliveries. The reduced width of the road requires careful coordination to ensure that the loading and unloading activities near the school, as indicated by the red circle, do not obstruct the flow of vehicles or cause congestion. The use of A. Santos Street for both school-related traffic and construction deliveries will necessitate clear scheduling and perhaps additional signage or traffic management during peak hours to avoid conflicts with regular school operations.

Given the spatial constraints and the nature of the area, the suggested route would need further site verification to confirm that it can accommodate the required traffic without significantly disrupting the local community and the school's daily activities.

Routes Inside the School

Figures B-5 outline the planned delivery and worker routes to ensure minimal disruption to school operations during the retrofitting of the affected buildings. In Figure B-5, the diagram represents the delivery route within the school premises during the retrofitting of the affected buildings. The proposed barracks and staging area are centrally located, adjacent to the retrofitting zone. Delivery vehicles will enter the school through the main gate, which is large enough to accommodate them. This route ensures that materials and supplies can be efficiently delivered to the staging area, minimizing disruption to ongoing activities.

Figure B-5 also illustrates the route specifically designated for workers entering and exiting the school premises during the retrofitting period. Unlike the delivery trucks, the workers will enter through a different gate. This separation of routes ensures that the main gate remains dedicated to the students and their usual flow of movement. By utilizing a different entry point, the workers' routes remain controlled and avoid interactions with students, enhancing safety and reducing potential congestion or accidents within the school.

The barracks indicated only means a resting area for workers (at lunch and snack breaks) and that the workers will stay out of the school premises at night.



Figure B-2. Access Road Leading to Buting Elementary School (A. Santos Street)

Source: Google Maps

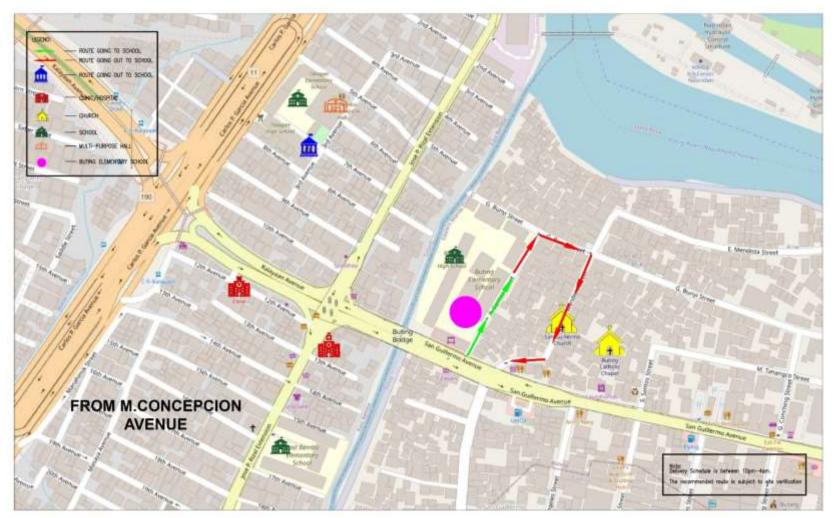


Figure B-3. Proposed Delivery Route 1

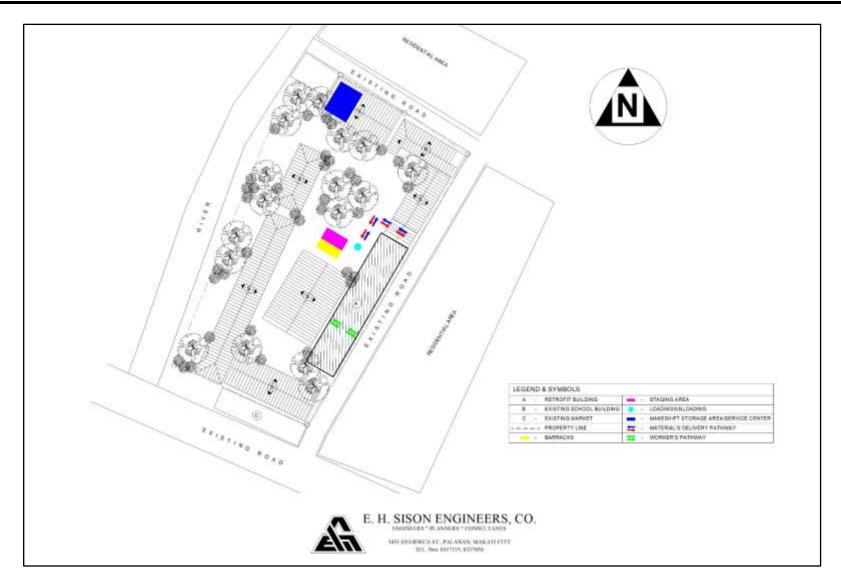


Figure B-4. Traffic Plan Inside School Premises

Recommended Delivery Vehicles

Due to the narrow size of the road leading to the school, only compact or small delivery vehicles will fit. The contractor needs to ensure the height of the truck is suitable for low-clearance areas and select a vehicle with a tight turning radius for better maneuverability on narrow roads. Light-duty trucks generally have lower payload capacities, which should be considered if you're transporting heavy goods.

The following is a list of vehicles that can meet this constraint.

- 1. Light-Duty Trucks (Mini Trucks)
 - Dimensions: These typically range from 1.5 to 2 meters in width and 4-5 meters in length.
 - Examples:
 - Suzuki Carry: Compact truck with a width of around 1.6 meters.
 - o Isuzu Elf (NKR model): Narrow cabin versions can fit within a 3-3.5 meter road width.





2. Vans (Cargo Vans)

- Dimensions: Around 1.8 to 2 meters in width, with length around 4.5 to 5 meters.
- Examples:
 - Toyota Hiace Cargo Van: About 1.9 meters wide.
 - Hyundai H100: Around 1.8 meters wide.





3. Box-Type Light Trucks

- Dimensions: Typically under 2 meters in width.
- Examples:
 - Hino 300 Series: Narrow cab models suitable for tighter spaces.
 - o Mitsubishi L300: A classic small truck around 1.7 meters wide.





TRAFFIC RISK MANAGEMENT

The construction / retrofitting of public-school buildings is located in close proximity to the households and existing roads are narrow (approx. 3.0 m-3.5 m), road traffic signage shall be installed into elevated frames for easily readable and identified by the road user. Traffic management commences with an identification of the hazards and an assessment of the risks that are common to all project sites, so that effective control measures can be implemented.

1. Traffic Control Devices

Traffic Control devices are markers, signs and signal devices placed upon, over or adjacent to a road leading to the project site, to regulate, warn or guide stakeholders.

Traffic Signs

- a. Regulatory Signs
 - 1. Stop Signs
 - 2. Speed Limits Signs (e.g. 10 kph Speed Limit along the street where project site is located)
 - 3. No Parking Signs
 - 4. Direction signs or signages such as arrows, directional lines etc. shall be place in conspicuous and strategic locations. There will be one entrance to the project site to minimize disruption of access to classrooms and establishments nearby.
 - Signage must be used for speed limits, exclusion zone, pedestrian crossing, vehicle crossing, blind corners, steep gradients and other hazards that might cause traffic congestion.

All traffic regulatory signs recommended and must be approved and coordinated with the local police and LGU concerned traffic authorities.

Traffic Equipment

- a. Traffic Cones made of plastic or rubber, 500 mm, 750 mm and 1000 mm high and to 500 mm in diameter or in shape at base, normally have retro-reflectorized red and white bands.
- b. Drums Reflectorized drums may be used to delineate a merging taper or a shoulder taper or to maintain a lane closure. The Contractor shall provide ballast to prevent movement of the drums by the wind. These drums about 800 mm to 1000 mm high and 300 mm in diameter shall be highly visible and positioned in strategic areas.
- c. Barricades shall consist of one or more similar barricade assemblies placed end to end. This shall be erected to protect the road users from danger due to construction equipment and other temporary structures and to prevent the area from the road accidents due to vehicular movement.

This shall be noticeably seen by the road users in the dark/night time so that no vehicle hits the barricade. A minimum of one red light or blinker red light shall be attached at the top of the barricade.

2. Pedestrian Routes

Contractors shall minimize interaction between pedestrian traffic and site hazards such as vehicle movements, falling objects, warehouse shelving etc. Pedestrian routes that represent paths people would naturally follow which will encourage pedestrians to stay on designated safe routes. The signage and line markings separating pedestrian routes from construction vehicles shall be visible to the public. The Contractor will be responsible in setting-up signage to display restricted areas by student, parents and school personnel at the construction site due to site hazards.

3. Construction Vehicle Movement Routes

The goal is to prevent vehicle movement from obstructing the path of pedestrians and prevent human collisions caused by vehicle contact, and environmental damage.

- Ensure that vehicle movement area have visible sign-posted to indicate restricted parking, visitor parking, speed limits, and other route hazards
- Ensure that vehicle routes are maintained from obstructions, grease/ oil spills, damage
- Minimizing the amount of moving construction-related vehicles working at one time.
- Install control and warning systems at all entrances and exits to and from project site areas by construction vehicles and equipment via public roads to protect and warn the public in the vicinity.
- Assign a spotter for large vehicle movement where visibility is compromised

3. Safe Crossing

- Ensure that the control measure to minimize vehicle and pedestrian interaction shall be properly implemented through the following:
- Each crossing for the students, parents, and school personnel shall have physical barriers such as fence, or temporary barricades
- o Areas where vehicles and pedestrians interact should be clear of blind spots and
- obstructions
- Speed Limits are installed on roads leading to the project site and where vehicles and pedestrians interact, ie 10kph.
- Light signals or visible ground markings are installed on pedestrian crossings

4. Safe Parking

If space is available, the Contractor's site parking lot must be segregated from the loading and unloading area. In schools where space is limited, parking of construction vehicles may not be allowed. Parking should be clearly marked, adequately lit, and unobstructed. Ensure that site parking areas will not obstruct the access and egress to site/ emergency exits. Provision of parking shall be provided including for school staff and visitor parking to prevent blockage.

5. Loading and Unloading Operation

Loading and unloading area of construction materials shall be located where vehicles can easily and safely maneuver. Areas shall be clearly marked and fenced to prevent unauthorize access during the loading and unloading process, particularly in areas where there is a risk of falling objects.

Assign a spotter especially if the driver cannot be seen or must enter a restricted area. If not, the process should be stopped. The driver must be clearly visible to the forklift/crane operator. The role of the spotter is to observe the loading and unloading process using equipment and machinery.

6. Deployment of traffic Marshall

Traffic Marshall and the corresponding safety signage shall be deployed at all road intersections of the transportation route where the equipment requires to turn left or right. The typical Traffic Marshall and

signage arrangement at all road intersections along the transportation routes within the vicinity of project sites shall be coordinated with concerned LGU and respective schools.

The Traffic Control Marshall must:

- o be competent
- o not do any other work while directing traffic.
- be in a position that places them at the lowest risk from the traffic.
- equipped with proper PPE to protect one from identified hazard: hard hat, safety shoes, hand gloves and reflectorized vest
- have a general knowledge of vehicle operations, rules of the road, and an understanding of driver expectations.
- shall attended mandatory Safety and health orientation and Traffic direction & control orientation upon hiring, conducted by the Contractor before deployment at the construction site.

Traffic Marshall Control Devices are provided with the following:

- Stop & Go paddle board
- Reflective Gloves
- o LED Traffic Baton
- o Whistle

ANNEX C.

STUDENT RELOCATION PLAN

The Student Relocation Plan (SRP) is essential for managing the temporary relocation of a school population during building retrofitting, ensuring that the process adheres to careful planning and implementation in accordance to World Bank standards. This plan aims to mitigate the social impacts of displacement by ensuring that pre-project conditions are either maintained or improved.

The SRP involves a comprehensive approach starting with the collection of baseline data to understand the demographics and existing conditions of the affected population. It outlines a relocation strategy, identifying alternative facilities and logistical arrangements to accommodate displaced students and staff.

The plan details an implementation schedule, assigns responsibilities, and includes a communication strategy to keep all stakeholders informed. Monitoring and evaluation mechanisms are established to assess the effectiveness of the relocation and address any issues promptly. Risk management strategies are also incorporated to address potential challenges.

The SRP ensures that the relocation process minimizes disruption, maintains educational continuity, and provides a safe and supportive environment for the temporarily displaced school community.

The following are the specific objectives of the plan:

- 1. **Ensure Continuity of Education:** The primary goal is to maintain uninterrupted educational activities despite disruptions by efficiently utilizing available space and adopting flexible learning modalities.
- 2. **Ensure Safety and Comfort:** Prioritizing the safety and comfort of learners and personnel by minimizing overcrowding and ensuring that all facilities are adequate and conducive to learning.
- 3. **Flexible Adaptation:** The plan must be adaptable to unforeseen circumstances, such as increased enrollment or further disruptions, allowing for adjustments as needed.

A. Temporary Student Relocation Strategy

Based on stakeholder consultations, three primary relocation strategies have been suggested to address the challenges encountered by schools. Here's a detailed overview of each mode:

- 1. Provide Additional Shifts: Implementing additional shifts is a strategy designed to maximize the use of available space when physical accommodations are limited. By introducing multiple shifts during the day, schools can effectively manage the number of students on campus at any given time. This approach involves staggering start and end times to reduce peak loads and avoid overcrowding. For instance, a school might run a morning shift and an afternoon shift, each accommodating a different group of students. This method helps in optimizing space usage and maintaining a manageable student-to-space ratio. For schools that currently operate with only one shift, this approach is often preferred as an alternative mode of learning, offering a practical solution to space constraints. However, it requires careful scheduling and coordination to ensure that the changes do not adversely affect students' learning experiences or disrupt extracurricular activities. Additionally, adjustments may be needed to accommodate transportation schedules and staff availability.
- 2. Transfer to Other Rooms: It involves temporarily moving students and staff to available rooms or buildings within the same school. This approach is suitable when parts of the building are temporarily unusable due to maintenance or structural issues. For example, if a classroom block is under repair, students and teachers can be relocated to other vacant classrooms within the school. This method minimizes disruption by keeping students and staff within their familiar school environment, ensuring continuity in the educational process. The effectiveness of this solution relies on the availability of

suitable alternative spaces within the school and ensuring these spaces are adequately equipped and maintained to support the educational needs of students and staff.

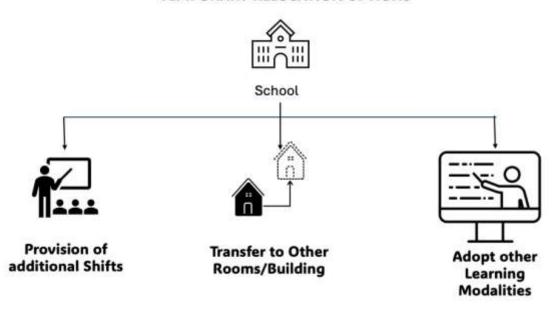
3. **Adopt Other Learning Modalities:** When physical space is inadequate, alternative learning methods can be implemented as they offer a flexible solution, including online classes, blended learning, and modular learning:

Online Classes: Enable students to learn remotely, reducing the need for physical classroom space. However, consultations with schools indicate that student performance showed decreased or limited progress during lockdown periods when online classes were heavily utilized. Internet accessibility and the availability of technology alone are insufficient for effective remote learning. Although EdTech played a crucial role in continuing education during lockdowns, challenges such as inadequate home support and less conducive learning environments remained significant barriers. To address these issues, targeted interventions are necessary to bridge gaps and create equitable learning opportunities for all students.

Blended Learning: Combines in-person and online instruction approaches, offering flexibility to adapt to space constraints. It leverages both physical and digital resources to support diverse learning needs. The consultation **r**evealed that transitioning to more blended learning models is often preferred, as teachers can still assess students' performance and intervene during the learning process, unlike in fully online classes where physical engagement or interaction with teachers and classmates is limited. It is crucial to prioritize strategies that provide guidance to parents and equip them with the tools needed to support their children effectively.

Modular Learning: Provision of educational materials for home study and conducting periodic assessments to track progress, which reduces the need for physical space and offers flexibility in learning. The success of this method relies on ongoing support for both students and teachers, emphasizing the need for effective pre-service and continuous professional development for educators to navigate both remote and in-person settings successfully. In addition, this method requires the parents' critical role in supporting their children's learning. However, working parents or those who are not present at home may struggle to stay involved, which can lead to issues such as incomplete assignments or underperformance of the student. To address this, schools should focus on capacity development for parents by offering training sessions and resources to help them better support their children's learning goals. This could include providing tools and strategies for managing study time, setting clear expectations for parental involvement, and offering online workshops or resources that can be accessed at their convenience. Regular check-ins and communication between teachers and parents can also help ensure that students remain engaged and that parents can effectively support their children's education, regardless of their availability.

TEMPORARY RELOCATION OPTIONS



Each mode of relocation has its advantages and considerations, and the choice of approach should be based on the specific needs and constraints of the school. Implementing these strategies in combination may also be necessary to effectively address the varying demands of different schools and situations.

B. Buting Elementary School Student Relocation Plan by Building

The temporary relocation plan for retrofitting across various schools involves several strategic recommendations to ensure minimal disruption to education while retrofitting activities take place.

1. Vicente P. Eusebio Building I

Learners/Faculty: 496 learners, 17 teaching, 9 non-teaching

Current Shifts: Shift 1: Kindergarten, Grades 3, 4, and 5

Facilities: Principal's Office, Administration Office, Guidance Office, Faculty Office, Science Laboratory, Speech Laboratory, Computer Laboratory, Conference room, Industrial Room, Canteen, School clinic, Library, Storage rooms, and classrooms.

Based on the December 2024 public consultation, the VPE I Building, has 5 floors, with 13 classrooms, 4 offices, and 496 learners of Grades Kindergarten, 3, 4, and 5.

Proposed Strategy:

1. Transfer to Other Buildings:

- Kindergarten, Grade 3, 4, and 5 students will be temporarily relocated to the Coching Building, which however, still requires to connect with water and electrical utilities.
- If Coching Building cannot accommodate due to being generally unusable, unconnected utilities or is insufficient, the relocation and the additional shifts will be implemented in VPE 3.

2. Additional Shifting:

Classes will operate in two shifts if there is no phasing:

Morning: 6:00 AM to 12:00 PMAfternoon: 12:15 PM to 5:30 PM

 2 shifts will be implemented if Coching Building or VPE 3 is insufficient to handle all students in one shift.

3. Relocation of Facilities and Materials:

- The Principal's Office, SBM Office, and Faculty Offices, will be relocated to the Coching Building while the Admin Office will temporarily move to the school gym for additional space.
- The Science Laboratory, Speech Laboratory, and School Clinic will be temporarily relocated to the ground floor of Coching Building.
- School materials, such as books, chairs, tables, and other learning resources, will be moved to Coching Building and VPE 3.
- o A Wi-Fi booster for the gym was noted to as requested during the pubcon.

2. Vicente P. Eusebio Building II

Learners/Faculty: 469 learners, 20 school personnel

Current Shifts: Shift 1: Kindergarten, Grade 3, 4, and 5

Facilities: Principal's Office, Administration Office, Guidance Office, Faculty Office, Science Laboratory, Speech Laboratory, Computer Laboratory, Conference room, Industrial Room, Canteen, School clinic, Library, Storage rooms, and classrooms.

Proposed Strategy:

1. Transfer to Other Buildings:

- Kindergarten, Grade 3, 4, and 5 students will be temporarily relocated to the Coching Building, which however, still requires to connect with water and electrical utilities.
- If Coching Building cannot accommodate due to being generally unusable, unconnected utilities or is insufficient, the relocation and the additional shifts will be implemented in VPE
 3.

2. Additional Shifting:

Classes will operate in two shifts if there is no phasing:

Morning: 6:00 AM to 12:00 PMAfternoon: 12:15 PM to 5:30 PM

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- The Principal's Office, SBM Office, and Faculty Offices, will be relocated to the Coching Building while the Admin Office will temporarily move to the school gym for additional space.
- The Science Laboratory, Speech Laboratory, and School Clinic will be temporarily relocated to the ground floor of Coching Building.
- School materials, such as books, chairs, tables, and other learning resources, will be moved to Coching Building and VPE 3.
- o A Wi-Fi booster for the gym was noted to as requested during the pubcon.

	Affected People				Options for Temporary Relocation of Students/School Staff by Stakeholders	
Building	School Learners Teachers / Personnel		Time of Shifts	Description		
Vicente P. Eusebio Building I	13 classrooms, 496 learners	4 Offices; 17 teaching, 9 non teaching	• Shift 1: (Kindergarten, Grade 3, 4, and 5)	VPE Building I has 5 floors and will directly affect the school's Principal's Office, SBM Office, Guidance Office, Faculty Office, Science Laboratory, Speech Laboratory, Computer Laboratory, Conference room, Industrial Room, Canteen, School clinic, Library, Storage rooms, and classrooms	Relocate students and staff to unused Coching building, and procure required utilities and facilities. If cannot, additional shifting to 6am to 12pm morning and noon 1pm to 6pm shifts to VPE 3. The offices and the school equipment and materials will be transferred to	
Vicente P. Eusebio Building II	469	20	• Shift 1: (Kindergarten, Grade 3, 4, and 5)	VPE Building II has 5 floors and will directly affect the school's Principal's Office, Administration Office, Guidance Office, Faculty Office, Science Laboratory, Speech Laboratory, Computer Laboratory, Conference room, Industrial Room, School clinic, Library, Storage rooms, and classrooms	Coching Building and the admin office will be relocated to the School's gym. Lab, guidance, canteen, clinic, will be temporarily relocated to Coching building's ground floor. Transfer of Internet Connection from VPE 1 and 2 to gym, however, needs wifi booster. Consider 6pm to 10pm for noisy construction activities.	

C. Proposed Timing of Temporary Relocation

Below is the proposed timing for the temporary relocation of students and staff during retrofitting, in close coordination and assistance of the PSRRRP Project Implementing Unit (PIU), focusing on three key strategies: transferring to other rooms, providing additional shifts, and adopting other learning modalities.

Week 1: Planning and Preparation

Day	Activity	Details	Responsibility	
1-2	Assessment and Room Identification	Identify and assess available rooms within the school for relocation. Ensure they meet educational needs and are appropriately equipped.	Facility Manager, Admin Team	
3-4	Develop a Relocation and Scheduling Plan	Plan the transfer of students and staff to available rooms. Create a plan for adopting other learning modalities.	Planning Committee	
5-7	Communicate Plan	Notify students, staff, and parents about the temporary relocation, additional shifts, and any new learning modalities.	Communication Officer	

Week 2: Implementation of Blended Learning

Day	Activity	Details	Responsibility
1-7	Prepare Resources	Organize and prepare necessary resources and materials for the temporary rooms.	Admin Team, Department Heads

Week 3: Monitoring and Adjustment

Day	Activity	Details	Responsibility
1-3	Monitor Transition and Address Issues	Observe the transition process, and address any immediate issues or concerns related to room assignments.	Admin Team, Support Staff
4-5	Provide Support	Offer additional support.	Training Coordinator
6-7	Review and Collect Feedback	Gather feedback from students, staff, and parents regarding the relocation.	Feedback Team, Admin Team

Week 4: Evaluation and Final Adjustments

Day	Activity	Details	Responsibility
1-2	Evaluate Setup	Assess the effectiveness of temporary rooms. Identify any issues that need to be addressed.	Admin Team, Planning Committee
3-4	Implement Adjustments	Make necessary adjustments based on feedback and evaluation to improve the temporary setup.	Admin Team, Facilities Team

5-7	Confirm Stability and	Ensure that all adjustments are in place and confirm	Admin	Team,
	Prepare for Return	that the temporary setup is stable. Prepare plans for returning to the original setup post-retrofit.	Planning Co	mmittee

In summary:

Week 1 focuses on planning and preparation. This involves identifying and preparing alternative rooms, developing a detailed relocation and scheduling plan, communicating the plan to all stakeholders, and preparing resources for both physical relocation and new learning modalities.

Week 2 involves the procurement of facilities for the school's unused building.

Week 3 is dedicated to monitoring the transition, addressing any immediate issues, and providing support and training for new systems. Gathering feedback helps to identify any problems early and ensures that the new arrangements are functioning as intended.

Week 4 focuses on evaluating the effectiveness of the temporary setup and making any necessary adjustments. This final phase ensures that the transition is stable and effective, and prepares for the eventual return to the original setup once retrofitting is complete.

By following this schedule, the goal is to minimize disruption to educational activities and ensure a smooth and efficient transition during the retrofitting period.

E. MONITORING AND IMPLEMENTATION

Monitoring and evaluation are critical components of the temporary relocation process, including the post-construction phase of returning the school to its original setup, and will be conducted continuously. The Department of Works and Highways will regularly review any reports or complaints related to the project, particularly those from affected students and faculty, and will discuss the outcomes in its technical meetings.

The monitoring and evaluation process aims to assess:

- 1. Whether the temporary relocation and associated project activities are progressing as planned.
- 2. If grievances and complaints are being accurately recorded and addressed.
- 3. Whether corrective actions, including any necessary adjustments to the implementation strategy, are required and what form they should take.

Responsibility for Monitoring

The PSRRRP Project Implementing Unit (PIU) holds overall responsibility for executing the project. The PIU will also oversee the completion of work before the school reoccupies the building, providing weekly status reports and evaluations of the progress.

Monitoring Process

Monitoring will focus on two main areas:

- 1. **Performance Monitoring**: This will track the physical progress of the required actions. Key performance indicators include:
 - o Documentation of consultation meetings and preparation of meeting notes.
 - o Completion of tasks, such as setting up the temporary relocation site and relocating the school pre- and post-construction.
 - o Publication of relevant notices in the Government Gazette and other media.
 - o Resolution of grievances, complaints, and concerns.

- 2. **Impact Monitoring**: This will evaluate how effectively the temporary relocation plan meets the needs of those affected. The impact monitoring methodology will involve:
 - o Reviewing the number and types of complaints received and assessing the effectiveness of the grievance redress mechanisms.
 - o Examining the appeals process and the timeframe for resolving appeals.

Monitoring Plan

Monitoring Activities	Objectives	Means of Verification	Responsibility for Data Collection, Analysis and Reporting
Performance Monitoring	To assess the progress in the implementation of the temporary relocation plan. The focus will be on the execution of actions relative to the proposed schedule and budget	Consultation with PAPs; Project Progress Reports; letters	DPWH, PSRRRP Project Implementing Unit (PIU)
Impact Monitoring	Assessment of the effectiveness of the temporary relocation plan and its implementation in addressing the needs of the PAPs	Consultation (public and PAPs); Project Implementation reports	DPWH, PSRRRP Project Implementing Unit (PIU)

Implementation Schedule

	2025		2026	
Project Site Survey				
Public Consultation				
Complete Draft SRP				
Approval of Draft SRP				
Information Education and Communication				
Planning and				

preparation		
SRP Implementation		
Construction		
GRM		
Monitoring		

G. PROPOSED BUDGET FOR THE IMPLEMENTATION, MONITORING AND EVALUATION

The implementation schedule for this plan is set to begin 2 months prior to the second quarter of 2025 beginning with SEP activities. It is proposed that the Student Relocation Plan be overseen by the District Head of DepEd, with a dedicated Deputy Officer assigned to each school in Pasig to ensure effective execution at the local level. The project is expected to require a minimum budget of ₱300,000 per school. The budget is also allocated to cover all necessary expenses including its program monitoring and evaluation. This plan is designed to encompass every major activity involved in the temporary relocation process, starting from the initial preparation phase, moving through detailed implementation, and culminating in the successful completion of the project. The objective is to ensure a smooth and well-organized transition for all students, minimizing disruptions and addressing all logistical and operational challenges.

ANNEX D.

ENVIRONMENTAL AND SOCIAL CODES OF PRACTICE (ECOP)

1.0 INTRODUCTION

The Philippine Seismic Risk Reduction and Resiliency Project aims to enhance the safety and seismic resilience of selected public buildings and facilities in Metro Manila through the structural strengthening and functional upgrade of public buildings which are selected and prioritized based on a transparent, well-designed, and cost-effective approach to retrofitting. The project aims to contribute to an overall reduction of the impacts of earthquakes (particularly "The Big One" scenario) on the portfolio of critical public facilities.

The retrofitting of buildings will be for existing public schools. The improvements are expected to bring in substantial benefits to the structural stability of buildings and to the safety of its occupants. However, the construction activities may also lead to adverse social and environmental impacts such as disturbance or nuisances to the building occupants and surrounding communities, triggering the need to develop the Environmental and Social Codes of Practice (ESCOP).

2.0 PURPOSE OF THE ESCOP

The ESCOP aims to provide guidance to the planning and implementation of the mitigation measures to be carried out by the Project Implementing Unit (PIU) contractors during civil works activities. It sets out the standard practices and procedures for managing the potential negative impacts on local environment and communities of all civil works to be carried out through measures to prevent adverse environmental impacts including monitoring and institutional arrangements on safeguards. The responsible parties are expected to follow these procedures and keep records and documentation of implementation of mitigation measures for periodic audits. The ECOP will be included as a separate annex in all bidding documents.

The ECOP is applicable to most construction and retrofitting activities. If significant impacts are identified based on the environment and social screening in Annex A, the ECOP is supplemented by the Environmental and Social Management Plan (ESMP) to address the site-specific impacts that have been identified. The ECOP contains the following sub-plans:

- 1. ESCOP 1: Temporary Relocation of School Classrooms and other Building Utilities
- 2. ESCOP 2: General Construction Site Management
- 3. ESCOP 3: Worker's Health and Safety
- 4. ESCOP 4: Community Health and Safety
- 5. ESCOP 5: Cultural Properties

3.0 RESPONSIBILITIES

The contractors at the site level are the key entities responsible for the implementation of the ESCOP. The PIU, particularly the Environmental and Social Safeguards Unit and their focal persons, are responsible for supervision and monitoring of implementation of ESCOPs.

ESCOP 1: TEMPORARY RELOCATION OF SCHOOL CLASSROOMS AND OTHER BUILDING UTILITIES

All the school buildings targeted under the project have social significance and therefore construction activities will have the potential to disrupt education and healthcare services and temporarily interfere with youth development or provision of care needs. The construction activities usually occur within a period of 11-15 months, hence, the location of temporary classrooms should be well-planned to ensure continuous operation of the building services.

CONSULTATIONS

The PIU and the design team should consult with the building administrators and other stakeholders such as faculty, medical staff, engineering staff, including students, patients and parents to hear their issues and concerns and preferences during programming of the project. This will be done during the detailed engineering design and prior to the start of any construction activities. Barangay and neighboring communities will also be consulted to inform them about the proposed project and to get their comments on proposed measures to management impacts and nuisance. Collaboration with representatives from the community in planning the temporary relocation site should be maximized to identify safe sites. The local government leaders may help provide suggestions on temporary relocation sites for school classrooms if there are no available areas within the existing school compound.

There may also be economic enterprises inside the school that may be temporarily affected during the retrofitting of the building. The canteen operators must also be consulted during the planning of the project.

The site survey and consultations aim to identify ways to minimize disruption of operation of the building and to develop an acceptable program of activities and the temporary relocation areas for classrooms, and other affected utilities.

GUIDANCE ON SELECTING AREAS FOR TEMPORARY CLASSROOMS

The project will keep in mind the health and safety of the surrounding areas to ensure that the temporary school site is conducive to learning of students.

- The site shall preferably be set up within the school compound in available rooms and areas of the school building that are not subject to retrofitting such as library, gymnasium, and quadrangle.
- Discuss with the school administration and stakeholders the implementation of flexible class schedules such as class shifts, weekend classes, and extension of classes during school breaks.
- Avoid locating the temporary classrooms near the main entrance where vehicles and materials delivery and other construction services may take place.
- Select a site with roofing or shade to protect teachers and students from exposure to sun or rain.
- Examine safety of the site and check against any hazardous areas such as noisy areas, falling debris, diggings, open electrical wires, and dusty surroundings.
- Provide temporary barricade for the classroom.
- Ensure that the temporary classroom has access to toilet facility.
- Ensure that the temporary area is provided with adequate lighting and ventilation.

 Ensure that there is provision for mobility of handicapped/disabled persons at the temporary site.

GUIDANCE ON SELECTION OF AREAS FOR TEMPORARY SCHOOL CANTEEN

There may be instances where the canteen and other food concessionaires of the school may be affected by the building retrofitting activities. These economic enterprises or businesses are expected to be temporarily relocated within the same compound for continued operations and to avoid livelihood impacts. Consultation with the canteen operator /concessionaire should be conducted during the planning process to ensure that income of the operator and its staff are not adversely impacted. The following are considerations in the planning of the temporary site for the canteen:

- The temporary site must have safe and sanitary area for food preparation.
- The area must have access to electricity, water, and toilet.
- The temporary site must have safe and comfortable ventilation, lighting, flooring, and walls/barricade.
- There must be sufficient floor space for food preparation, food service, and passageways of people.
- There must be provision for waste bins.

ESCOP 2: GENERAL CONSTRUCTION SITE MANAGEMENT

The ESCOP on construction site management provides the overarching guidelines with regards to construction and civil works to implement the building retrofitting activities and functional improvements, including removal of obstructions, installation of scaffoldings and falseworks, chipping of concrete and stripping down of targeted structures (walls, ceilings, columns, beams), welding and steelworks, concreting, application of epoxy, and finishing and restoration works. This ESCOP on site management sets out the measures to be applied to mitigate the potential impact of site activities to the building occupants, local residents, roads, and communities in the immediate vicinity of the project site. The code refers to the requirements of the World Bank General Environment, Health and Safety (EHS) Guidelines and national laws and regulations.

The requirements of the ESCOP on construction site management shall be carried out by the contractor under the supervision of the PIU. Further, specific measures for each site may be identified through the preparation of the site-specific ESMP by the consultant.

GENERAL REQUIREMENTS PRIOR TO CONSTRUCTION

Prior to site mobilization, the contractor together with the PIU will conduct the joint site inspection and consultation with the building owner or end-user of school (administrator, engineering staff, and other personnel) as well as affected stakeholders (e.g. canteen, adjacent residential houses, barangay) to discuss and identify areas of concern such as: area for storage of stockpile of materials, disposal area for construction debris, planned camp site and yard areas, temporary relocation of any utility, classroom, health and environmental issues, potential hazards, vehicle and security management, programming of work schedule, and project organization and staff assignment. During the site inspection, the Environment, Safety and Health (EHS) Officer of the contractor in coordination with the Environmental and Social Safeguards Unit and assigned EHS Focal Person at the PIU will identify and discuss with the stakeholders the site readiness requirements and the measures to be implemented to manage impacts and disturbance. Mitigation measures will be designed to include details of the controls with regard to general site layout and operations, working hours, drainage, site

lighting, security, emergency planning and response, and worker access and safety. Whenever feasible, the program of the retrofitting works must be planned in a section-by-section basis to minimize disturbance.

The contractor will prepare the site-specific ESMP/ECOP and site general layout reflecting the area covered by the project site and the corresponding locations of camp site, temporary facilities for materials stock area and waste/debris collection area, barricades/fences, and area for mobility of equipment at site.

PROHIBITIONS DURING CONSTRUCTION

The following activities are prohibited on or near the project site:

- 1. Cutting of trees for any reason outside the approved construction area;
- 2. Use of unapproved toxic materials, including lead-based paints, asbestos, etc.;
- 3. Deposition of chemicals, sanitary wastewater, spoil, waste oil, and concrete agitator washings in watercourses;
- 4. Disturbance to anything with archaeological or historical value;
- 5. Use of alcohol and prohibited drugs by workers at the workplace;
- 6. Employment of workers under the age of 18;
- 7. Discrimination regarding recruitment, wages and compensation.

REQUIREMENTS DURING CONSTRUCTION

1. MATERIALS MANAGEMENT

Materials that will be utilized for the retrofitting of buildings and construction of functional improvements include cement, epoxy, aggregates, sand, steel braces/jackets, and reinforcing steel. The bulky materials (cement bags, aggregates, sand, steel braces/jackets and reinforcing steel) will require some space within the site, hence, a materials management plan is necessary to avoid disturbance and ensure safety in the construction site. During delivery of the materials at the site, spill of materials while in transit may cause also road accidents. The following materials management measures are proposed:

- Where possible, avoid stockpiles by only ordering the supplies needed.
- Stockpiles of aggregates and sand should be placed at least 10 meters away from any canal or surface water.
- Stockpiles of aggregates should be provided with sediment control measures such as silt traps.
- Cement bags should be covered with tarpaulin.
- Coordinate the schedule of delivery of materials with the school administration.
- Ensure that materials stockpiles are placed in safe and secure area within the facility that is approved by the school administration.
- Schedule delivery of materials on a weekly basis to limit movement of delivery vehicles to the site.
- Provide barricade on stockpile of materials
- Provide spill kit on site for oils.

2. WASTE MANAGEMENT

Wastes that will be generated during the construction activities will include debris such as excavated soil for foundation works, concrete debris from chipping and stripping down of structural parts, pieces of rebars, wires, nails, broken glass, wood, pipes, empty containers of paint, solvents, strippers, epoxy resins, adhesives, degreasers, oily rags, used oil, spent welding electrode sticks/rods, busted lamps, among others. The excavation of substructure and foundation may also result to cut soil. There may also be food wastes generated by workers and other ordinary solid wastes (bits of paper, plastics, and packaging materials). Except for the empty containers of paints, solvents, epoxy resins, adhesives, degreasers, oil rags, and busted lamps which are classified as hazardous wastes, most of the wastes are considered as inert and non-hazardous wastes.

Before construction, a solid waste management procedure (storage, provision of bins, site clean-up schedule, bin clean-out schedule, etc.) must be prepared by the contractor. Arrangements with a solid waste transporter licensed by the local government must be obtained. Likewise, a temporary site for the waste area that is recommended/approved by the school must be identified beforehand where waste segregation containers will be provided by the contractor. Waste containers shall be provided with cover to avoid tipping by animals. After a day's work, workers are required to clean the work area. All materials and tools are stowed accordingly in preparation for the next day's work. This will also enhance efficiency and assist in maintaining a safe environment when workers return to work the next day. Wastes are properly sorted and disposed of in different waste bins or garbage containers.

Discussed in the succeeding sections are the measures to manage the different types of wastes during the retrofitting activities.

Non-Hazardous Waste. The non-hazardous waste should be placed in waste segregation bins such as for biodegradable waste (food wastes), recyclable waste (wires, pipes, rebars, and other pieces of metal), and hazardous waste. Excavated soil will be used as filling materials while other recyclable materials such as wooden planks may be used for formworks and scaffolding. The recyclable materials will be collected and separated onsite from other waste sources for reuse or for sale.

Burning of garbage and construction wastes shall be strictly prohibited at the site. Likewise, access by unauthorized personnel at the worksite should be controlled. Materials which are clearly a danger to building occupants e.g. exposed nails, broken glass, steel beams etc. should be properly collected to avoid accidents. Work areas will be maintained clear of waste materials and obstructions. Stockpiles of waste materials will not be allowed, instead, the wastes will be compacted and kept out of the way in accordance with the Occupational Safety and Health Program per DWPH D.O. 13 series 1998.

Hazardous Waste. Hazardous waste should always be segregated from the non-hazardous wastes. Designate an area for the temporary storage of empty containers (paints, solvents, epoxy resins, adhesives, degreasers), oily rags, and busted lamps. Proper labels should be affixed on these types of hazardous wastes. As a hazardous waste generator, the contractor is required to secure a Hazardous Waste Generator Registration with the DENR and to commission the services of a DENR-registered hazardous waste transporter and treater for the collection and disposal of hazardous wastes. A Hazardous Waste Manifest must be completed to document the amount of hazardous waste generated and collected/disposed for offsite treatment. The DENR-recognized treater should issue a Certificate of Treatment (COT) ascertaining the safe treatment and disposal of the hazardous waste. The COT records shall be kept for proper documentation.

Asbestos Containing Materials. There may be situations wherein the affected building section may contain asbestos materials as high-density products in roofing and flat sheets/walls of existing building. The use of amosite (brown) and crocidolite (blue) asbestos fibers and of products containing these fibers is strictly prohibited and that no spraying of all forms of asbestos in buildings is allowed. The contractor must undertake specific precautions if materials containing asbestos are present or encountered during works in order to ensure the protection of workers and occupants of the building. Asbestos fibers may be carried to the lungs. Prolonged and cumulative exposure is harmful and may cause asbestos-related diseases.

The procedure for handling asbestos materials must comply with the DENR Chemical Control Order on asbestos and the DOLE Order No. 154, series of 2016 on the management of asbestos in the workplace. In case asbestos materials is encountered at the work site, the following procedures should be followed:

- Notify the DENR of the proposed removal work and coordinate the activities with the DOLE with regards to the methods to be employed, inspections, decontamination, control monitoring and clearance inspections.
- The removal work must be assigned to a suitably qualified asbestos removal specialist.
- Isolate the site and provide barriers
- Restrict access from the general public to the site
- Erect appropriate signs and keep all access points locked at all times
- Following removal works, all surfaces are to be thoroughly cleaned using HEPA filtered vacuum and wet pipe techniques.
- On completion, the site must be carefully checked for visible asbestos containing materials.
- Any asbestos materials must be placed into asbestos plastic bags and then removed from the site by DENR-licensed waste transporter and treater.
- A hazardous waste manifest shall be completed for the transport, treatment and disposal of asbestos wastes offsite.

3. AIR QUALITY

Dust and Emissions. The retrofitting and construction activities may generate dust and fine materials from chipping and drilling of concrete which can cause degradation of ambient air quality and indoor air quality. Air quality issues may also arise from stockpile of excavated soil and aggregate and sand materials where during dry and windy conditions may be carried by wind. Dust is an environmental issue and a health and safety issue. The movement of hauling vehicles to the site during delivery of materials may also cause emissions.

Odor from Epoxy and Paint/Solvent Fumes. Odor from the application of epoxy resin, paint and solvent may also be generated. Workers may be exposed to fumes that can cause irritation of the nose, throat, and lungs. Workers applying epoxy resin and paint should be provided with respiratory mask. The area should be well-ventilated.

Welding Fumes and Gases. Air quality may also be affected during the welding of steel plates and cutting of steel. Workers are the ones directly exposed to this hazard. Overexposure to welding fumes and gases can cause health problems like respiratory illnesses.

To manage and mitigate these impacts and risks, the following measures will be implemented:

- For indoor concrete chipping and drilling, enclose the construction area with impermeable dust barriers
 and use industrial air vacuum pumps and ventilation exhaust fans to minimize spread and spillover of
 dust.
- For chipping/drilling activities on the exterior surface of the building, install nets/sheeting and temporary screens.
- Require workers to wear particle mask.
- Keep stockpile of aggregate and sand materials covered with well-fixed plastic sheeting, tarpaulins or other geotextiles to avoid suspension or dispersal of fine soil particles during dry and windy days.
- Equip concrete mixing equipment with dust shrouds.
- Periodically clean debris.
- Maintenance of hauling vehicles to ensure compliance with the motor vehicle emissions standards.
- Prohibit idling of construction vehicles while unloading materials at the site.
- Provide welders with PPE appropriate for welding activities and provide adequate ventilation and local exhaust to keep fumes and gases from the breathing zone and the general area.

4. NOISE

Noise during construction may occur during operation of equipment and movement of delivery vehicles at the site. Noise caused by operation of machinery coupled by haulage vehicles can cause nuisance. It could disrupt ongoing classes or cause nuisance to patients. Workers are also directly exposed to noise. In order to avoid the risks and impacts of noise, the following measures are recommended:

- Coordinate with the administration of the school on the schedule of construction activities that will minimize disruption of facility operation
- Provide temporary anti-noise barriers to barricade the construction area and shield sensitive receptors
- Strictly prohibit concrete chipping and drilling activities beyond 9:00PM particularly in areas near sensitive receptors and residential areas
- Deliver fabricated steel plates and cut/bend reinforcing steel to desired size to minimize cutting activities onsite.
- Require workers to wear ear plugs
- Ensure that operation of the equipment complies with the noise standards for Class AA (schools).

5. DRAINAGE

Not all construction activities may necessarily require retrofitting of footings but all design activities start with the investigation of the symptoms of structural problems and failures in the foundation. This is performed through digging of sample or selected footings to determine indicators of structural concern and determine where repair is necessary.

During the excavation for the retrofitting of foundations, the excavated soil may cause soil erosion during rainfall events. Storm water runoff may carry soil into canals and reduce the water-carrying capacity of the canal that could contribute to flooding during heavy rains. Excessive soil runoff may also lead to sedimentation of creeks and rivers. Another potential risk of soil runoff is from the residues from cement mixers and washing of equipment which could likewise clog canals.

In order to avoid impacts on drainage, the following measures must be implemented:

Avoid earthworks during rainy months.

- Stockpile excavated soil (including aggregates and sand) away from drainage canals and water courses.
- Stockpiles of excavated soil and aggregates/sand should be provided with sediment control measures such as silt traps, barriers and trenches.
- Prohibit washing of cement mixers and other construction vehicles at the site
- Conduct daily cleaning and sweeping of the construction site and periodically remove soils, stones and wastes from gutters, drainage canals and ditches.
- During rain events, check the drainage system to see if these are blocked. Remove materials and wastes that have been swept away by stormwater.

6. WATER POLLUTION

Domestic sewage will be generated during construction due to presence of workers at the site. If there are no proper toilets at the site, improper disposal of sewage may cause unsanitary conditions in the premises. Therefore, appropriate wastewater management measures will be necessary such as provision of temporary toilet facilities or portable toilets ("portalets"). These facilities will be kept clean and sanitary at all times.

The portalets should be located more than 30 meters of an existing water supply well or surface water body and should be located in a place where its odor cannot reach busy areas of the compound. The portalets should have available water and hand washing facilities.

7. SITE SECURITY

The presence of workers in the school compound may pose risks to peace and order and security of the area. In order to avoid any untoward incidents, the contractor will be required to undertake the following:

- Security workers will be assigned to protect the construction sites, project workers and other stakeholders.
- Submit names of workers to the school and the Barangay.
- All workers will secure IDs or construction work pass from the school and from the Barangay.
- Restrict entry of unauthorized persons inside the construction site.

ESCOP 3: WORKER HEALTH AND SAFETY

Hazards of construction activities may cause adverse effects to health and safety of construction workers. Occupational hazards include ergonomic hazards from carrying/lifting heavy materials and equipment, exposure to excessive and continuous noise, exposure to hazardous materials, hot works (i.e. welding), working in height and use of scaffoldings, and spread of communicable diseases such as COVID-19. The contractor will be required to undertake the following:

- Implement a Construction Safety and Management Plan in compliance with the DOLE OSH guidelines
- Designate an onsite Safety Officer duly accredited by DOLE
- Assign a contact person onsite to receive/respond to complaints from the barangay/community; provide the name/contact number of the responsible person to the Barangay.
- Require workers to wear safety gadgets/PPEs such as hard hats, gloves, safety belts, rubber boots, and goggles, appropriate to the task.
- Post safety signs/reminders in strategic areas within the construction area
- Provide sufficient lighting at night.
- Provide barricades / safety barriers particularly at excavations and stockpiles of aggregates.

- Provide first-aid station within the construction site to ensure immediate medical attention in case of accidents.
- Comply with the COVID-19 health and safety protocols in compliance with DPWH DO No. 38, series of 2020.

Working at Heights. Workers' safety may be at risk if scaffolding platform and height do not conform with the standards for safety. The scaffolds must be installed following the requirements of the National Building Code. For scaffolds with a platform height of under 2 m, the contractor is required to provide external strengthening. If the platform is 2 m in height or over, the ratio must of 3:1 wherein the width of the base of the scaffold must be at least ½ or 1/3 the height of the platform. When working in height, the workers will be required to wear harness as support and protection.

COVID-19. The workers are required to follow the basic hygiene procedures at all times to prevent the transmission of COVID-19. The detailed measures are outlined in Annex H. In general, the contractor should present follow the guidelines of the Inter-Agency Task Force on COVID-19 and the DOH. Workers to be deployed at the worksite should be undergo COVID-19 tests. Number of personnel at the site will be limited. Disinfection and temperature monitoring will be undertaken on a daily basis.

DPWH Engineers assigned at the site shall ensure strict compliance to DOLE D.O. 13, series of 1998, and implementation of wearing of PPE such as face masks, safety glasses/goggles, face shields, and long sleeve T-shirts, to contain the spread of COVID-19 in the workplace.

ESCOP 4: COMMUNITY HEALTH AND SAFETY

The potential risks to health and safety of community associated with the project activities include nuisance from noise, airborne dust, falling debris, and congestion of roads adjacent to the sites during delivery of materials. Some of the schools are in community areas which can be accessed through narrow roads. The movement of large delivery truck to these areas may block roads. In order to manage community and health issues, the following mitigation measures will be implemented:

- Conduct consultations with neighboring communities and Barangay about the project and the schedule of works.
- When working on the exterior of the building, provide safety nets/screens for protection of adjacent properties and passersby.
- Install canopy if the building is next to a road or building that may be affected by falling debris.

ESCOP 5: CULTURAL HERITAGE

Contracts for civil works involving excavations will incorporate procedures for dealing with situations in which buried Physical Cultural Resources (PCR) are unexpectedly encountered. The final form of these procedures will depend upon the local regulatory environment, including any chance find procedures already incorporated in legislation dealing with antiquities or archeology. Resource persons from the Cultural Properties Division of the National Museum are the designated officials in-charge of these matters.

PCR is defined as Movable or immovable objects, sites, structures or groups of structures having archeological, paleontological, historical, architectural, religious, aesthetic, or other cultural significance. The following are also specifically defined under the new Act

- a) **"Built Heritage"** shall refer to architectural and engineering structures, such as but not limited to bridges, government buildings, houses of ancestry, traditional dwellings, quartels, train stations, lighthouses, small ports, educational technological and industrial complexes, and their settings, and landscapes with notable historical and cultural significance;
- b) **"Cultural Heritage"** shall refer to the totality of cultural property preserved and developed through time and passed on to posterity;
- c) "Cultural Property" shall refer to all products of human creativity by which a people and a nation reveal their identity, including churches, mosques and other places of religious worship, schools and natural history specimens and sites, whether public or privately-owned, movable or immovable, and tangible or intangible;
- d) "Important Cultural Property (ICP)" shall refer to a cultural property having exceptional cultural, artistic, and historical significance to the Philippines, as shall be determined by the National Museum and/or National Historical Institute.
- e) **"Tangible cultural property"** shall refer to a cultural property with historical, archival, anthropological, archaeological, artistic and architectural value, and with exceptional or traditional production, whether of Philippine origin or not, including antiques and natural history specimens with significant value.
- f) **Indigenous properties** The appropriate cultural agency in consultation with the National Commission on Indigenous Peoples shall establish a program and promulgate regulations to assist indigenous people in preserving their particular cultural and historical properties.

The chance find procedure is used in case of accidental discovery of an artifact or fossil of possible cultural or historical significance. This procedure describes a physical cultural resources management plan that includes measures to avoid or mitigate any adverse impacts on physical cultural resources; measures needed for managing any chance find; and the reporting system to authorities.

In compliance with the requirements of the National Cultural Heritage Act of 2009 (Republic Act 10066), National Museum Act of 1998 (Republic Act 8492) and Cultural Properties Preservation and Protection Act (Presidential Decree 374), cultural treasures and properties that will be accidentally found at the site will be surrendered to the National Museum through the Cultural Properties Regulation Division.

The chance find procedure will be implemented and disseminated to contractors and its workers. Contractors will be made aware of cultural properties to look out for that may have heritage, cultural, social and spiritual significance such as pottery, ceramics, wrought iron, gold, bronze, silver, wood or other heraldic items, metals, coins, medals, badges, insignias, coat of arms, crests, flags, arms and armor, furniture, carvings, paintings, sculptures, jewelry, and other objects classified as antiques. The chance find procedure will include the following:

- a) Immediately stop work if a suspected find is discovered at the site and contact the National Museum to report the chance find. Simultaneously, coordinate the matter with Pasig City LGU.
- b) Record details in the incident report and take photos of the find.
- c) Secure the area to prevent any damage or loss of removable objects. In cases of removable antiques or sensitive and delicate artifacts and relics, a night guard will be assigned to secure the area until the representative from the National Museum takes over to assess the artifact and the site.
- d) The decision to remove the artifact or relic will be taken by the authorities from the National Museum.
- e) Construction activities will resume only after permission is granted from the National Museum.

The suspension of excavation activities shall be lifted only upon the written authority of the National Museum or the National Historical Institute and only after the systematic recovery of the archaeological materials.